

ENGINEERING CODES AND STANDARDS INDEX 2017



The Institution of Engineers, Bangladesh (IEB)

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ORGANIZATION OF THE INDEX

Engineering Codes and Standards Index 2017 consists of 7 (seven) Sections corresponding to the seven divisions of IEB, written in alphabetical order, as follows:

Section: 01 Agricultural Engineering Division

Section: 02 Chemical Engineering Division

Section: 03 Civil Engineering Division

Section: 04 Computer Engineering Division

Section: 05 Electrical Engineering Division

Section: 06 Mechanical Engineering Division

Section: 07 Textile Engineering Division

PREFACE TO ECSI 2017

In order to maintain standard and good practices in planning, design, implementation, construction, testing, monitoring, maintenance, uninstallation or demolishing of engineering infrastructures and their components engineering professionals of different organizations in Bangladesh follow a large number of national and international codes, standards, rules, regulations etc. It has been long felt a necessity of an index of these codes and standards by engineers. Central Council of the Institution of Engineers, Bangladesh (IEB) formed a 21 membered Committee on 28 November 2015 for coordinating policies and issues related to codes and standards used in Bangladesh. The Committee later formed a Sub-Committee on 18 January 2016 to prepare an Engineering Codes and Standards Index (ECSI) used by engineers in Bangladesh. The Sub-Committee comprised of 11 members representing all the divisions of the IEB. Two engineers from each division acted as Contributors for the Sub-Committee in collecting lists of codes and standards being followed by different government agencies in Bangladesh. The Sub-Committee was also assisted by editorial staff engaged by the IEB.

Formal letters of request on behalf of the Institute were sent to different government agencies in Bangladesh for lists of codes and standards being followed by the agencies. Collected lists of codes and standards were later categorized in item types of particular divisions. The divisions are presented in an alphabetical order and are assigned with a divisional code. The index is presented in a tabular format for ease of looking up. Year of adoption of some of the codes and standards have been intentionally omitted with the assumption that latest version of the document will be followed in case of future revisions.

Present index (ECSI 2017) is an initial attempt in compiling such a list. In spite of our extensive efforts we could not provide an index of codes and standards for all the divisions. I believe in the next edition of the index it will be possible to include lists of codes and standards for all the divisions. There is every scope of extension of the list in future. IEB has an intension of creating an archive of all the listed documents for benefit of practicing engineers. The present index is expected to be hosted in the IEB website with hyperlinks to the official web sites of the codes and standards.

I gratefully acknowledge contribution of members of the Core Committee and the Sub-Committee for their active participation and guidance in compiling the index. I appreciate the cooperation of the Contributors during the collection of the lists of codes and standards. We tried to present the entire document in a uniform format. We regret any unintentional editorial or typographical mistakes that may still exist in the index.

Prof. Dr. Md. Zoynul Abedin Convener, Sub-Committee

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SECTION 01

CODES AND STANDARDS FOR AGRICULTURAL ENGINEERING

Divis	ion Code : 01		Agricultural	Engineering
Item No.	Item Description	Components	Codes/Standar	ds/Acceptability Criteria/Test
1	Chaff Cutter	-	IS 7897	Test Code for chaff cutter
			IS 7898	Manually-operated chaff cutter – specification (second revision)
			IS 11459	Specification for power-operated chaff cutter
			IS 15542	Power-operated chaff cutter – Safety requirements
			IS 1511	Blades for manually-operated chaff cutter (second revision)
2	Combine Harvester/Reaper	-	IS 8122 (Part 1)	Test Code for combine harvester- thresher: Part 1 Terminology (first revision)
			IS 8122 (Part 2)	Combine harvester-thresher - Test Code: Part 2 Performance tests (first revision)
			IS 9826	Glossary of terms relating to harvesting and threshing equipment
			IS 10378	Specification for Knife back for harvesting machines
			IS 11467	Test Code for cereal harvesting machine
			IS 15806	Combine harvester thresher Selected performance and other characteristics Recommendations
			IS 6024	Specification for guards for harvesting machines (first revision)
			IS 6025	Specification for knife sections for harvesting machines (first revision)
			IS 8122-2	Test Code for combine-harvester thresher:
			ISO/TC 23/SC7	Equipment for harvesting & conservation
			DG/T 014	Grain combine harvester
			IS 8122(PT-2)	Combine harvester-thresher-Test Code: Part 2 Performance tests (first revision)
			NY 2609	Safety signs for combine harvesters
			NY 2610	Codes of safe operation for grain combine harvesters
			GB / T 20790	Technical requirements for semi - fed combine harvesters
3	Diesel/Petrol Engine	-	CAS 108	Fuel specification for diesel engine performance test
			CAS 109	Fuel specification for ignition engine performance test

Divis	ion Code : 01		Agricultural Engineering		
Item No.	Item Description	Components	Codes/Standar	rds/Acceptability Criteria/Test	
3	Diesel/Petrol Engine (Contd.)	-	CCGF 606.7	Code for implementation of quality supervision and spot checks for vehicle gasoline products	
			DG / T 003	Agricultural Diesel Engine	
			ISO 1204	Reciprocating internal combustion engines	
			ISO 683-15	Heat-treatable steels, alloy steels and free-cutting steels – Part 15: Valve steels for internal combustion engines	
			ISO 2710-1	Reciprocating internal combustion engines – Vocabulary – Part 1: Terms for engine design and operation	
			ISO 3046-3	Reciprocating internal combustion engines – Performance – Part 3: Test measurements	
			ISO 4548-1	Methods of test for full-flow lubricating oil filters for internal combustion engines – Part 1: Differential pressure/flow characteristics	
			ISO 4548-15	Methods of test for full-flow lubricating oil filters for internal combustion engines – Part 15: Vibration fatigue test for composite filter housings	
			ISO 19013-2	Rubber hoses and tubing for fuel circuits for internal combustion engines – Specification – Part 2: Gasoline fuels	
			ISO 19013-1	Rubber hoses and tubing for fuel circuits for internal combustion engines – Specification – Part 1: Diesel fuels	
			ISO 15619	Reciprocating internal combustion engines – Measurement method for exhaust silencers – Sound power level of exhaust noise and insertion loss using sound pressure and power loss ratio	
4	Farm Implements	-	IS 1976	Specification for Rotary paddy weeder, manually	
				operated (second revision)	
			IS 4366(Part 1)	Specification for Agricultural tillage discs: Part 1	
				concave type (second revision)	
			IS 4366(Part 2)	Specification for Agricultural tillage discs: Part 2 Flat type (second revision)	
			IS 6288	Test Code for mouldboard ploughs	
			IS 6635	Specification for Tractor operated disc harrows	

Divisi	ion Code : 01		Agricultural	Engineering
Item No.	Item Description	Components	Codes/Standar	ds/Acceptability Criteria/Test
4	Farm Implements (Contd.)	-	IS 6638	Specification for Tractor-mounted spring loaded cultivators
			IS 6690	Specification for Blades for rotavator for power tillers (first revision)
			IS 6813	Sowing equipment - Seed-cum-fertilizer drill Specification (second revision)
			IS 7230	Specification for Plain spool for tractor operated disc harrows
			IS 7353	Specification for Blade for Tractor- Operated Terrace
			IS 7565(Part 1)	Specification for Tines for tractor operated cultivators: Part 1 Rigid tines
			IS 7565(Part 2)	Specification for Tines for tractor operated cultivators Part 2 S-type tines
			IS 7593(Part 1)	Specification for Power operated pneumatic sprayer cum-duster: Part 1 Knapsack type (first revision)
			IS 7640	Test Code for disc harrows
			IS 9164	Guide for estimating cost of farm machinery operation
			IS 9217	Test Code for agricultural discs
			IS 9813	Tractor-mounted blade terracers (first revision)
			IS 10225	Specification for Bearing spools for tractor-operated disc harrows
			IS 10233	Specification for Tractor-operated disc ploughs
			IS 10239	Specification for Blade for tractor- operated scraper
			IS 10254	Specification for Share for animal-drawn ridger
			IS 10691	Specification for Share for tractor- operated mouldboard ploughs
			IS 10806	Trailers for Power Tillers - Specification (first revision)
			IS 10807	Axles with brakes of trailer for power tillers
			IS 11204	Specification for Sugarcane harvesting knife
5	Grain Dryer	-	IS 8108 (Part 1)	Test Code for grain dryers: Part 1 Selection and preparation for test (first revision)
			IS 8108 (Part 2)	Test Code for grain dryers: Part 2 Method of tests for continuous dryers

Divis	ion Code : 01		Agricultural	Engineering
Item No.	Item Description	Components	Codes/Standar	ds/Acceptability Criteria/Test
5	Grain Dryer (Contd.)	-	IS 8108 (Part 3)	Test Code for grain dryers: Part 3 Methods of tests for in-silo dryers
			IS 8420	Grain dryers – Glossary of terms (first revision)
			ISO 7183	Compressed-air dryers – Specifications and testing
6	Gravity Flow	All civil works	ASTM	American Standard of Testing Materials
	Irrigation Project	includingSluicesRegulatorsCanalsSteel gatesPlates	BADC Manual	Bangladesh Agricultural Development Corporation
7	Irrigation Water Dist	ribution System:		
	a) Surface	Lined channel as per	ASTM	American Standard of Testing Materials
	irrigation channel	design/ Water control structures	BADC Manual	Bangladesh Agricultural Development Corporation
	b) Buried pipe (CC/uPVC)	Construction of pipe line along with	BADC Manual	Bangladesh Agricultural Development Corporation
	distribution network	ancillary structures	BMDA Manual	Barind Multipurpose Development Authority, Bangladesh
8	Irrigation with Head	Raising Technology:		
	a) Irrigation with rubber dam	All civil works including	ASTM	American Society for Testing and Materials
		 Pilling Construction of abutment Apron Rubber bag with due specification 	BADC Manual	Bangladesh Agricultural Development Corporation
	b) Irrigation with	All civil works	ASTM	American Standard of Testing Materials
	Hydraulic Elevator Dam (HED)	 including Pilling Construction of abutment Apron Obstructing MS plate to raise the head of the desired 	BADC Manual	Bangladesh Agricultural Development Corporation

Division Code : 01			Agricultural Engineering	
Item No.	Item Description	Components	Codes/Standards/Acceptability Criteria/Test	
9	Minor Irrigation (Equ	ipment based irrigation):		
	a) Irrigation with Deep Tube Well (DTW)	Housing Pipe (MS) Blind Pipe (GI/FG) Strainer (SS/FG/uPVC) Bail Plug and other fitting & fixing items etc. All civil works including: Construction of Pump House/Discharge Box All Electrical Works Including: Submersible pump Transformer Cables	ASTM BADC Manual BDS BMDA Manual BS	American Standard of Testing Materials Bangladesh Agricultural Development Corporation Bangladesh Standards Barind Multipurpose Development Authority, Bangladesh British Standards
	b) Irrigation with Shallow Tube Well (STW)	Blind pipe (GI/uPVC) Bail plug Pumping set	BADC Manual	Bangladesh Agricultural Development Corporation
	c) Irrigation with Low Lift Pump (LLP)	Suction pipe Delivery Pipe Fitting & fixing materials	BADC Manual BMDA Manual	Bangladesh Agricultural Development Corporation Barind Multipurpose Development Authority, Bangladesh
	d) Irrigation with Floating Pump (FP)	 Pumping set Pontoon Engine/ Motor Pump Suction pipe Delivery pipe Accessories 	BADC Manual BS	Department of Agricultural Extension, Bangladesh Bangladesh Agricultural Development Corporation British Standards
0	On-farm Water Management (OFWM)	Blocking,Water Scheduling based on CWR etc.	BADC Manual BMDA Manual DAE Manual	Bangladesh Agricultural Development Corporation Barind Multipurpose Development Authority, Bangladesh Department of Agricultural Extension,

Divisi	ion Code : 01		Agricultural Engineering		
Item No.	Item Description	Components	Codes/Standar	rds/Acceptability Criteria/Test	
11	Potato	-	IS 9856	Test Code for potato planters	
	Planter/Grader		IS 14603	Potato grader – Test Code	
			NY/T 1415	Technical specification of quality evaluation for potato planter	
12	Power Tiller	-	GB/T 6229	Test method of walking tractors	
				Engine performance testNatural ambient testMaximum power test	
			IEC 651	Sound level meters	
			IS 12036	Agricultural tractors test procedures power test for power take off	
			IS 12180-1	Tractors & machinery for agriculture and forestry	
				Noise measurement method of test part 1 Noise at the operators position-survey method	
			IS 12226	Agricultural tractors power test for drawbar test procedure (first revision)	
			IS 9935	Power tiller Test Codes	
			ISO 4251-1	Tyres (ply rating mark series) & rims for agricultural tractor & machinery Part :1 Tyre designation & dimension and approved rim contour	
			ISO 5353	Earth moving machinery & tractors and machinery for agriculture and forestry— Seat index point	
			JB/T 7282	Types & specification of oils for tractor	
			OECD Code-2	OECD Standard Code for the official testing of agricultural and forestry tractor performance	
			PNS/PAES 117	Agricultural machinery-Small engine- Method of test	
			SNI 0738	Quality Standard and testing method of two tractors	
			TIS 1350	Walk behind tractors	
			TIS 787	Small size water cooled diesel engine	
13	Rice Trans planter	-	PNS/PAES 152	Agricultural machinery – Mechanical rice trans planter – Methods of test	
			DG/T 008	Rice trans planter	
14	Sprayer	-	IS 8548	Test Code for power-operated hydraulic sprayer	
			IS 10134	Methods of tests for manually operated sprayers (first revision)	

Divis	ion Code : 01		Agricultural Engineering		
Item No.	Item Description	Components	Codes/Standard	ds/Acceptability Criteria/Test	
14	Sprayer (Contd.)	-	IS 11313	Hydraulic power sprayers - Specification (first revision)	
			DG/T 009	Power sprayer	
			IS 1970	Hand operated compression knapsack sprayer(fifth revision)	
			IS 3906	Hand-operated knapsack sprayer (fourth revision)	
15	Thresher Drip Irrigation Kit	-	CECS 213	Technical specification for automatic fire- extinguishing rotating sprinkler systems	
			NY/T 1361	Agricultural irrigation equipment, Micro sprinkling hose	
			ISO/TC 23/SC18	Irrigation and drainage and systems	
			DIG G77AS	Drip irrigation kit	
			DIG Corp G77AS	Drip watering kit with anti-siphon	
16	Thresher	-	IS 3327	Specification for pedal-Operated paddy thresher (first revision)	
			IS 6320	Specification for power thresher, Hammer mill type (first revision	
			IS 9019	Code of practice for installation, operation and preventive maintenance of power threshers	
			IS 11234	Test Code for power thresher for groundnut	
			IS 11691	Specification for power thresher, spike tooth type	
			NY 2801	Safety operation procedure of maneuver thresher	
			IS 9020	Safety requirements for power thresher	
			IS 6284	Test Code for power thresher for cereals (second revision)	
17	Tractor	-	Code 2	OECD Standard Code for the official testing of agricultural and forestry tractor performance	
			Code 3	OECD Standard Code for the official testing of protective structures on agricultural and forestry tractors (dynamic test)	
			Code 4	OECD Standard Code for the official testing of protective structures on agricultural and forestry tractors (static test)	
			Code 5	OECD Standard Code for the official measurement of noise at the driving position(s) of agricultural and forestry tractors	

Divis	ion Code : 01		Agricultural Engineering		
Item No.	Item Description	Components	Codes/Stand	ards/Acceptability Criteria/Test	
17	Tractor (Contd.)	-	Code 6	OECD Standard Code for the official testing of front-mounted protective structures on narrow-track agricultural and forestry tractors	
			Code 7	OECD Standard Code for the official testing of rear-mounted protective structures on narrow-track agricultural and forestry tractors	
			Code 8	OECD Standard Code for the official testing of protective structures on agricultural and forestry track laying tractors	
			Code 9	OECD Standard Code for the official testing of protective structures for tele-handlers (testing of falling-object and roll-over protective structures fitted to self-propelled variable reach all-terrain trucks for agricultural use)	
			Code 10	OECD Standard Code for the official testing of falling object protective structures on agricultural and forestry tractors	
			SAE J 2708	OECD Standard Code for agricultural tractor test	
			IS 5994	Agricultural tractors and power tillers (FAD 11)	
			IS 4905	Methods for random sampling	
			IS 9253	Guidelines for field performance and haulage test of agricultural tractors (first revision)	
			IS 9939	Glossary of terms relating to agricultural tractors and power tillers	
			IS 10743	Method for determination of center of gravity of agricultural tractors	
			IS 11442	Method of test for operator's field of vision of agricultural tractors (first revision)	
			IS 11859	Method for determination of turning and clearance diameter of agricultural tractors	
			IS 12036	Agricultural tractors—Test procedures— Power tests for power take off (first revision)	
			IS 12061	Agricultural tractors—Braking performance —Method of test (first revision)	

Divis	ion Code : 01		Agricultural Engineering		
Item No.	Item Description	Components	Codes/Standar	ds/Acceptability Criteria/Test	
17	Tractor (Contd.)	-	IS 12062	Method for measurement of exhaust smoke emitted by agricultural tractors	
			IS 12180	Method for noise measurement of agricultural tractors	
			IS 12207	Recommendations on selected performance characteristics of agricultural tractors	
			IS 12224	Method of test for hydraulic power and lifting capacity of agricultural tractors	
			IS 12226	Agricultural tractors—Power tests for drawbar—Test procedure(first revision)	
			IS 12239	Guide for safety and comfort of operator	
			(Part 1)	of agricultural tractors and 1996 power tillers: Part 1 General requirements (first revision)	
			ISO 789 (Part 8)	Agricultural tractors - Test procedure: Part 8 Engine air cleaner	
			ISO 730-2	Agricultural wheeled tractors - Three- point linkage: Part 2 Category 1 N (Narrow Hitch) (third revision)	
			IS 4931	Agricultural tractors - Rear mounted power take off Types 1, 2 and 3 (third revision)	
			ISO 3767-1	Tractors and machinery for agriculture and forestry, powered lawn and garden equipment - Symbols for operator controls and other displays Part 1: Common Symbols (second revision)	
			ISO 3767-2	Tractors and machinery for agriculture and forestry, powered lawn and garden equipment - Symbols for operator controls and other displays : Part 2 Symbols for agricultural tractors and machinery (first revision)	
			ISO 3600	Tractors and machinery for agriculture and forestry - Powered lawn and garden equipment – Operators manuals - Content and presentation (second revision)	
			ISO 3789	Guidelines for location and operation of operator	
				controls on agricultural tractors and machinery (first revision)	
			IS 8265	Agricultural tractors - Guards for power take-off (PTO) drive-shafts (second revision)	

Division Code : 01			Agricultura	al Engineering
Item No.	Item Description	Components	Codes/Standards/Acceptability Criteria/Test	
17	Tractor (Contd.)	-	ISO 5673	Agricultural tractors and machinery - Power take-off drive shafts and position of power-input connection (first revision)
			ISO/TR 3778	Agricultural tractors - Maximum actuating forces required to operate controls (first revision)
			IS 11859	Agricultural tractors - Turning and clearance diameters - Methods of test

SECTION 02

CODES AND STANDARDS FOR CHEMICAL ENGINEERING

Division Code: 02		Chemical Engineering			
Item No.	Item Description	Description Components	Codes/ Standards/Acceptability Criteria/Test		
1	Cathodic Protection	-	ASTM A518	Standard specification for corrosion- resistant high-silicon iron castings	
	Materials		ASTM G97	Standard test method for laboratory evaluation of magnesium sacrificial anode test specimens for underground applications	
2	(a) City Gate Station (CGS)	-	ACI 214	Recommended practice for evaluation of strength test results of concrete	
	(b) Regulating and Metering Station (RMS)		ACI 301	Specifications for structural concrete for buildings	
	(c) Town Bordering		ACI 302.1R	Guide for concrete floor and slab construction	
	Station (TBS)		ACI 304R	Guide for measuring, mixing, transporting and placing concrete	
			ACI 305R	Hot weather concreting	
			ACI 308	Standard practice for curing concrete	
			ACI 309	Guide for consolidation of concrete	
			ACI 315	Manual of standard practice for detailing reinforced concrete structures	
			ACI 318	Building code requirements for reinforced concrete	
			ACI 347	Recommended practice for concrete formwork	
			ACI 613	Recommended practice for design of concrete mixes	
				ACI 614	Recommended practice for measuring, mixing and placing concrete
			AGA Report No. 3	Orifice metering of natural gas and other related hydrocarbon fluids	
			AGA Report No. 5	Fuel gas energy metering	
			AGA Report No. 7	Turbine metering	
			AGA Report No. 8	Compressibility factor of natural gas and related hydrocarbon gases	
			AGA, GMM Part 9	Gas measurement manual, part 9, design of meter and regulator stations	
			AISI 304	18 Cr-8 Nil steel	
			AISC M011	Manual of steel construction allowable stress design	
			API Spec. 5L	Specification for line pipe	
			API Spec. 6D	Specification for pipeline valves	

Divis	ion Code : 02		Chemical Engineering		
Item No.	Item Description	Components	Codes/ Standards/	Acceptability Criteria/Test	
2	CGS/RMS/TBS	-	API 527	Seat tightness of pressure relief valves	
	(contd.)		API 600	Steel gate valves, flange and butt welding ends	
			API 602	Compact gate valves	
			API 1104	Specifications for welding pipelines and related facilities	
			API 2000	Venting atmospheric and low-pressure storage tanks (non-refrigerated and refrigerated), (third edition)	
			API 2031	Combustible gas detector systems and environmental/operational factors influencing their performance	
			API RP 500	Recommended practice for classification of locations for electrical installation at pipeline transport facilities	
			API RP520 Part-I	Recommended practice for design and installation of pressure relieving systems	
			API RP 520 Part-II	Recommended practice for sizing, selection and installation of pressure relieving devices	
			API RP 521	Guide for pressure relieving and depressuring system	
			API RP 550	Recommended practice: Manual on installation of refinery instruments and control systems	
			API RP 750	Recommended practice for management of process hazards	
			API RP 1102	Recommended practice for liquid petroleum lines crossing highways.	
			ANSI A40.8	Safety requirements for plumbing	
			ANSI A58	Minimum design loads in building and other structures (for wind loading)	
			ANSI B2.1	Pipe threads (except dry seal)	
			ANSI B16.1	Cast iron pipe flanges and flanged fittings	
			ANSI B16.11	Forged steel fittings, socket welded and threaded	
			ANSI B16.21	Non-metallic gaskets for pipe flanges	
			ANSI/ASME B16.34	Valves-flanged, threaded, and welding end	
			ANSI/ASME B16.5	Pipe flanges and flanged fittings	

Divis	ion Code : 02		Chemical Engineering	
Item No.	Item Description	Components	Codes/ Standards/	Acceptability Criteria/Test
2	CGS/RMS/TBS (contd.)	-	ANSI/ASME B16.9	Factory made wrought butt-welding fittings
			ANSI/ASME B31.8	Gas transmission and distribution piping systems
			ASME Section VIII	American Society of Mechanical Engineers boiler and pressure vessel code division 1
			ASME Section IX	Qualification standard for welding and brazing procedures, welders, brazers, and welding and brazing operators
			ASTM A36	Structural steel
			ASTM A53	Specification for pipe, steel, black and hot-dipped, zinc-coated, welded and seamless
			ASTM A105	Forged carbon steel for piping components
			ASTM A106	Seamless carbon steel pipe for high temperature service
			ASTM A123	Standard specification for zinc (hot-dip galvanised) coatings on iron and steel products
			ASTM A153	Specification for zinc coating (hot-dip) on iron and steel hardware
			ASTM A185	Welded steel wire fabric for concrete reinforcement steel
			ASTM A194	Specification for carbon and alloy steel nuts for bolts for high pressure and high temperature service
			ASTM A269	Specification for seamless and welded austenitic stainless steel tubing for general service
			ASTM A307	Standard specification for carbon steel bolts and studs, 60000 psi tensile strength
			ASTM A312	Specification for seamless and welded austenitic stainless steel pipe
			ASTM A325	High strength bolts for structural steel joints, including suitable nuts and washers
			ASTM A370	Mechanical testing of steel products
			ASTM A385	Recommended practice providing for high-quality zinc coatings (hot-dip)

Divis	ion Code : 02		Chemical Engineering		
Item No.	Item Description	Components	Codes/ Standard	s/ Standards/Acceptability Criteria/Test	
2	CGS/RMS/TBS (contd.)	-	ASTM A435	Straight beam ultrasonic examination of steel plates for pressure	
			ASTM A490	Specification for high-strength bolts, classes 10.9 and 10.9.3 for structural steel joints	
			ASTM A501	Hot formed welded and seamless carbon steel structural tubing	
			ASTM A615	Specification for deformed and plain billet-steel bars for concrete reinforcement	
			ASTM A694	Specification for carbon and alloy steel forging for pipe flanges, fittings for high pressure transmission services	
			ASTM A860	Specification for wrought high-strength low-alloy steel butt-welding fittings	
			ASTM B209M	Specification for aluminum alloy sheet and plate	
			ASTM B221M	Specification for aluminum alloy shape	
			ASTM C33	Specification for concrete aggregates	
			ASTM C76	Reinforced concrete culvert, storm drain and sewer pipe	
			ASTM C143	Test for slump of Portland cement concrete	
			ASTM C150	Specification for Portland cement	
			ASTM C173	Test for air content of freshly mixed concrete by the volumetric method	
			ASTM C177	Test method for steady state heat flux measurements and thermal transmission properties	
			ASTM C260	Specification for air-entraining admixtures for concrete	
			ASTM C547	Specification for mineral fiber preformed pipe insulation	
			ASTM C552	Specification for cellular glass thermal insulation	
			ASTM C591	Specification for unfaced preformed rigid cellular urethane thermal insulation	
			ASTM C592	Specification for mineral fiber blanket insulation and blanket type pipe insulation (materiel mesh covered)	
			ASTM E329	Recommended practice for inspection and testing agencies for concrete, steel and bituminous materials as used in construction.	

Division Code: 02		Chemical Engineering		
Item No.	Item Description	ption Components	Codes/ Standards/Acceptability Criteria/Test	
2	CGS/RMS/TBS (contd.)	-	ASTM G57	Standard method for field measurement of soil resistivity using the wenner four - electrode method
			AWSD1.1	Structural welding code
			BS 1904	Industrial platinum resistance thermometer
			DIN 3381	Safety devices for gas supply installations operating at working pressures up to 100 bar; pressure relief governors and safety shut-off devices
			DIN 7971	Slotted pan head tapping screws
			DIN 17245	Ferritic steel castings with elevated temperature properties - technical delivery conditions
			DIN 52616	Testing of thermal insulation materials; determination of thermal conductivity by means of a heat-flow meter
			EN 50020	Electrical apparatus for potentially explosive atmospheres: intrinsic safety
			EN 50022	Low voltage switch gear and control gear for industrial use; mounting rails; top hat rails 35 mm wide for snap-on mounting of equipment
			EN 55011	Limits and methods of measurement of radio disturbance characteristics of industrial, scientific and medical (ism) radio frequency equipment
			EN 55013	Limits and methods of measurement of radio disturbance characteristics of broadcast receivers and associated equipment
			EN 55014	Limits and methods of measurement of radio disturbance characteristics of electrical motor operated and thermal appliances for household and similar purposes, electric tools and similar electric apparatus
			EN 55015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment.
			EN 55020	Immunity from radio interference or broadcast receivers and associated equipment
			EN 55022	Limits and methods of measurement of radio interference characteristics of information technology equipment

Divis	ion Code : 02		Chemical Engineering		
Item No.	Item Description	m Description Components	Codes/ Standards/Acceptability Criteria/Test		
2	CGS/RMS/TBS (contd.)	-	GPA 2166	Obtaining natural gas samples for analysis by gas chromatograph	
			GPA 2172	Calculation of gross heating value, relative density and compressibility factor for natural gas	
			GPA 2261	Analysis for natural gas and similar gaseous mixtures by chromatograph	
			IEC 44	Instrument transformers	
			IEC 76	Power transformers	
			IEC 79-10	Electrical apparatus for explosive gas atmospheres, part 10: classification for hazardous areas	
			IEC 146, 146A and 14-2	Semiconductor rectifiers and converters	
			IEC 157-1	Low-voltage switchgear and control-gear	
			IEC 185	Current transformers	
			IEC 364-5-54	Electrical installations of buildings, part 5: selection and erection of electrical equipment, chapter 54: Earthing arrangements and protective conductors	
			IEC 417 B	Graphical symbols for use on equipment index, survey and compilation of the single sheets	
			IEC 529	Classification of degrees of protection provided by enclosures	
			IEC 726	Dry type power transformers	
			IEC 801-1	Electromagnetic compatibility for industrial process measurement and control equipment; part 1: general introduction	
			IEC 801-2	Electromagnetic compatibility for industrial process measurement and control equipment; part 2: electrostatic discharge requirements	
			IEC 801-3	Process measurement and control equipment; part 3: radiated electromagnetic field requirements. Electromagnetic compatibility for industrial	
			IEC 801-4	Electromagnetic compatibility for industrial process measurement and control equipment; part 4: electrical fast transient/ burst requirements	
			IEC 947-2	Circuit breakers	

Division Code: 02		Chemical Engineering			
Item No.	Item Description	em Description Components Codes/ Standard	Codes/ Standards	ls/Acceptability Criteria/Test	
2	CGS/RMS/TBS (contd.)	-	IEEE 587	Guide for surge voltage in low-voltage AC power circuits	
			ISA S5.1	Instrumentation symbols and identification	
			ISA S5.2	Binary logic diagrams for process operations	
			ISA S5.3	Graphic symbols for distributed control/shared display instrumentation, logic and computer systems	
			ISA S12.13	Part ii, installation, operation and maintenance of combustible gas detectors	
			ISA S20	Specification forms for process measurement and control instruments, primary elements and control valves	
			ISO 6976	Specification for calculation of calorific value, density and relative density of natural gas	
			NAAMM A202.1	Metal bar grading manual	
			NEN-EN-50014	Electrical apparatus for potentially explosive atmospheres: general requirements	
			NFPA 70	National Electrical Code (NEC)	
			NFPA 72	Standard for the installation, maintenance, and use of protective signaling systems	
			NFPA 72E	Standard on automatic fire detectors	
			NFPA 101	Life safety code	
			NFPA 493	Standard for intrinsically safe apparatus and associated apparatus for use in class (i), (ii) and (iii), division 1 hazardous locations	
			MSS SP 44	Steel pipe line flanges	
			MSS SP72	Ball valves with flanged or butt-welding ends	
			MSS SP75	Specification for high test wrought buttwelding fittings	
			MSS SP84	Steel valves-socket welding and threaded ends	
			NACE RP0169	Control of external corrosion on underground or submerged metallic piping systems	
			Title 29 CFR Part 1910	Osha standard subpart d walking-working	

Divis	ion Code : 02		Chemical Engineering		
Item No.	Item Description	Components	Codes/ Standard	ls/Acceptability Criteria/Test	
3	Coating and Wrapping Material	-	Abel IP 170	Determination of flash point - Abel closed-cup method	
			ASTM D257	Test methods for d-c resistance or conductance	
			ASTM D638	Test methods for tensile properties of plastics	
			ASTM D792	Method of test for specific gravity and density of plastics by displacement	
			ASTM D870	Method for water immersion test of organic coatings on steel	
			ASTM D882	Test method for tensile properties of thin plastic sheeting	
			ASTM D1000	Methods of testing pressure-sensitive adhesive coated tapes used for electrical insulation	
			ASTM D1002	Test method for strength properties of adhesives in shear by tension loading (metal-to-metal)	
			ASTM D1084	Test method for viscosity of adhesives	
			ASTM D1289	Standard specification for faced rigid cellular polyisocyanurate thermal insulation board	
			ASTM D1200	Standard test method for viscosity by ford viscosity cup	
			ASTM D2240	Test method for rubber property durometer hardness	
			ASTM D2671	Methods of testing heat shrinkable tubing for electrical use	
			ASTM E28	Tests method for softening point by ring and ball apparatus	
			ASTM E398	Test method for water vapor transmission rated of sheet materials using a rapid technique for dynamic measurement	
			ASTM G14	Test method for impact resistance of pipeline coatings (failing weight test)	
			ASTM G17	Test method for penetration resistance of pipeline coatings (blunt rod)	
			ASTM G42	Test method for cathodic disbanding of pipeline coatings subjected to elevated temperatures	
			AS/NZS 4352	Tests for coating resistance to cathodic disbonding	

Division Code: 02		Chemical Engineering		
Item No.	Item Description	tion Components Codes/ Standards	Codes/ Standards/A	cceptability Criteria/Test
3	Coating and Wrapping Material (Contd.)	-	DIN 30672	Coating for corrosion protection tapes and heat shrinkable products for pipelines for operational temperatures up to 50°c
			DIN 53122	Determination of the water vapor transmission rate of plastic film, rubber sheeting, paper, board and other sheet materials by gravimetry
			DIN 53495	Testing of plastics: determination of water absorption
			DIN 53515	Determination of tear strength of rubber elastomers and plastic film using graves angle test piece with nick
			ISO 1515	Paints and varnishes - determination of volatile and non-volatile matter
			ISO 9000/ 9001/9002	Quality system
			SIS-05-5900	Pictorial surface preparation standards for painting steel
			TP-206	Alyeska test - tape shear test
4	CWC Coating	-	ASTM C39	Standard test method for compressive strength of cylindrical concrete specimens
			ASTM C42	Standard test method for obtaining and testing drilled cores and sawed beams of concrete
			ASTM C497	Standard test methods for concrete pipe, manhole sections, or tile
			ASTM C670	Standard practice for preparing precision and bias statements for test methods for construction materials
			BS 12	Specification for Portland cement
			BS 682	Elastomeric seals: materials requirements for seals used in pipes and fittings carrying gas and hydrocarbon fluids
			BS 812	Testing aggregates: method for determination of aggregate impact value
			BS 882	Specification for aggregates from natural sources for concrete
			BS 1881 Part 4	Testing concrete
			BS 3184	Methods of test for water for making concrete (including notes on the suitability of the water)
			BS 8110	Structural use of concrete

Division Code : 02			Chemical Engineering		
Item No.	Item Description	Components	Codes/ Standards/A	cceptability Criteria/Test	
5	FBE Coating	-	API 5L	Specification for line pipe	
			CAN/CSAZ245.20M92	External fusion bond epoxy coating for steel pipe	
			SIS-05-5900	Pictorial surface preparation standards for painting steel surfaces	
			SSPC-SP10	Near white blast cleaning	
6	Fittings	-	API Spec. 5L	Specification for line pipe	
			API RP 5L5	American Petroleum Institute recommended practice for marine transport of line pipe	
			API RP 5L1	American Petroleum Institute recommended practice for railroad transport of line pipe	
			ANSI/ASME B1.1	Unified inch screw threads	
			ANSI/ASME B16.5	Pipe flanges and flanged fittings	
			ANSI/ASME B16.47	Large diameter steel flanges	
			ANSI/ASME B16.9	Factory made wrought butt-welding fittings	
			ANSI/ASME B16.25	Butt welding ends	
			ANSI/ASME B16.34	Valves-flanged, threaded, and welding end	
			ANSI B18.2.1	Square and hex bolts and screws	
			ANSI B18.2.2	Square and hex nuts	
			ANSI/ASME B31.1	Power piping	
			ANSI/ASME B31.3	Process piping	
			ANSI/ASME B31.4	Pipeline transportation systems for liquids and slurries	
			ANSI/ASME B31.8	Gas transmission and distribution piping systems	
			ANSI/ASME B36.10	Welded and seamless wrought steel pipe	
			ASME B40.100	Pressure gauges and gauge attachments	
			ASME Section VIII	American Society of Mechanical Engineers boiler and pressure vessel code division 1	
			ASME Section IX	Boiler and pressure vessel code, welding and brazing qualifications	
			ASTM A194	Standard specification for carbon steel, alloy steel, and stainless steel nuts for bolts for high pressure or high temperature service, or both	
			ASTM A370	Mechanical testing of steel Products.	

Division Code: 02		Chemical Engineering			
Item No.	Item Description	scription Components Codes/ Standar	Codes/ Standards/	ds/Acceptability Criteria/Test	
6	Fittings (Contd.)	-	ASTM D256	Standard Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics	
			ASTM D570	Standard Test Method for Water Absorption of Plastics	
			ASTM D638	Test Methods for Tensile Properties of Plastics	
			ASTM D651	Tensile Strength of Molded Electrical Insulating	
			ASTM E23	Standard Test Methods for Notched Bar Impact Testing of Metallic Materials	
			BS 4515	Specification for welding of steel pipelines on land and offshore. Carbon and carbon manganese steel pipelines.	
			BS 1560	Circular flanges for pipes, valves and fittings (Class designated). Steel, cast iron and copper alloy flanges. Specification for steel flanges	
			BS 3292	Specification for direct reading hygrometers	
			BS EN 60529:1992	Degrees of protection provided by enclosures (IP code)	
			IGE TD6	Introduction GeneraleaL'economie	
			MSSSP6	Manufacturer's Standards Society- Standard Finished for Contact Faces of pope Flanges and connecting End Flanges of Valves and Fittings	
			MSSSP 44	Steel pipe line flanges	
			MSSSP 55	Quality standard for steel castings for valves, flanges, fittings, and other piping components - Visual method for evaluation of surface irregularities	
			SIS 05 59 00	Pictorial surface preparation standards for painting steel surfaces	
7	Induction Bend	-	API 5L	Specification for line pipe	
			API 5LW	Transportation of line pipe on barges and marine vessels	
			ASME B16.49	Factory-made wrought steel butt welding induction bends for transportation and distribution systems	
			ASME B31.8	Gas transmission and distribution piping systems	
			ASME V	Non-destructive examination	
			ISO 3138	Specification for line pipe	
			ISO 12094	Ultrasonic testing for detection of laminar defects.	

Division Code : 02			Chemical Engineering	
Item No.	Item Description	Components	Codes/ Standards/	Acceptability Criteria/Test
8	Line Pipe	-	API 5L	Specification for line pipe
			ASTM E 92	Test method for vickers hardness of metallic materials
			ASTM E 94	Standard guide for radiographic examination
			ASTM E 112	Standard test methods for determining average grain size
			BS 5996	Specification for the acceptance level for internal imperfection in steel plate, strip and wide flats, based on ultrasonic testing
			ISO 3183	Specification for the acceptance criteria & inspection
9	LPE Coating	-	API 5L	Specification for line pipe
			ASTM D570	Test method for water absorption in plastics: method for conditioning plastics and electrical
			ASTM D618	Test method for brittleness temperatures of plastics and elastomers by impact
			ASTM D638	Test methods of flow rates of thermoplastics by extrusion plastometer
			ASTM D746	Test method for brittleness temperature of plastics and elastomers by impact
			ASTM D1238	Test method for flow rates of thermoplastics by extrusion plastometer
			ASTM D1475	Test method for density of paint, varnish, lacquer and related products
			ASTM D1505	Test method for density of plastics by the density-gradient technique
			ASTM D1525	Test method for vicat softening temperature of plastics
			ASTM D1693	Test method for environmental stress- cracking of ethylene plastics
			ASTM D2240	Test method for rubber property- durometer hardness
			ASTM D3895	Test method for oxidative induction time of polyolefin by thermal analysis
			CAN/CSA-Z245.21- M92	External polyethylene coating for pipe
			DIN 30670	Polyethylene coating pipe for steel pipes & fittings
			SIS-05-5900	Pictorial surface preparation standards for painting steel surfaces
			SSPC-SP10	Near white blast cleaning

Division Code : 02			Chemical Engineering	
Item No.	Item Description	Components	Codes/ Standards/Acceptability Criteria/Test	
10	Pig Traps	-	API Spec. 5L	Specification for line pipe
			API Spec. 6D	Specification for pipeline valves
			ANSI/ASME B16.5	Pipe flanges and flanged fittings
			ANSI/ASME B16.47	Large diameter steel flanges
			ANSI/ASME B31.3	Process piping
			ANSI/ASME B31.4	Pipeline transportation systems for liquids and slurries
			ANSI/ASME B31.8	Gas transmission and distribution piping systems
			ASME V	Non-destructive examination
			ASME Section VIII	American society of mechanical engineers boiler and pressure vessel code division 1
			ASTM A106	Seamless carbon steel pipe for high temperature service
			ASTM A234	Piping fittings of wrought carbon steel and alloy steel for moderate and elevated temperatures
			ASTM A 275/A 275M	Standard practice for magnetic particle examination of steel forgings
			ASTM A333	Seamless and welded steel pipe for low- temperature service
			MSS SP44	Steel pipeline flanges
			MSS SP75	Specification for high test wrought buttwelding fittings
			NACE MR0175	Supplied stress cracking resistant metallic materials for oil field equipment
11	River Crossing	-	API Spec. 5L	Specification for line pipe
			API 1104	Specifications for welding pipelines and related facilities
			ANSI/ASME B36.10	Welded and seamless wrought steel pipe
			ANSI/ASME B31.8	Gas transmission and distribution piping systems
			PRCI RP 227-9424	Installation of pipelines by horizontal directional drilling
12	Sub-Soil Investigation	-	ASTM C127	Standard test method for relative density (specific gravity) and absorption of coarse aggregate
			ASTM D422-63	Standard test method for particle-size analysis of soils
			ASTM D854	Standard test methods for specific gravity of soil solids by water pycnometer

Division Code : 02			Chemical Engineering	
Item No.	Item Description	Components	Codes/ Standards/Acceptability Criteria/Test	
12	Sub-Soil Investigation (contd.)	-	ASTM D1586	Standard test method for standard penetration test (SPT) and split-barrel sampling of soils
			ASTM D2216	Standard test methods for laboratory determination of water (moisture) content of soil and rock by mass
			ASTM D3441	Standard test method for mechanical cone penetration testing of soils
			ASTM D 4318-10	Standard test methods for liquid limit, plastic limit, and plasticity index of soils
			ASTM D7400-08	Standard test methods for downhole seismic testing
			ASTM G57-06	Standard test method for field measurement of soil resistivity using the wenner four-electrode method
13	Valves	-	API Spec. 6D	Specification for pipeline valves
			API Spec. 5L	Specification for line pipe
			API 6FA	American petroleum institute recommended practice for fire test for valves
			API 599	Steel and ductile iron plug valves
			API 607	Fire test for soft-seated quarter-turn valves
			ANSI/ASME B16.5	Pipe flanges and flanged fittings
			ANSI/ASME B16.9	Factory made wrought butt-welding fittings
			ANSI/ASME B16.25	Butt welding ends
			ANSI/ASME B16.47	Large diameter steel flanges
			ANSI/ASME B31.3	Process piping
			ANSI/ASME B31.8	Gas transmission and distribution piping systems
			ASME Section VIII	American Society of Mechanical Engineers boiler and pressure vessel code division 1
			ASME Section IX	Boiler and pressure vessel code, welding and brazing qualifications
			ANSI B16.10	Face-to-face and end-to-end dimensions of valves
			ANSI B16.11	Forged fittings, socket welding and threaded
			ANSI B16.25	Butt welding ends

Division Code : 02			Chemical Engineering	
Item No.	Item Description Valves (contd.)	Components -	Codes/ Standards/Acceptability Criteria/Test	
13			ANSI B16.34	Valves-flanged, threaded, and welding end
			ANSI B18.2.1	Square and hex bolts and screws.
			ANSI B18.2.2	Square and hex nuts
			ASTM E18	American society for testing and materials Rockwell hardness and Rockwell superficial hardness of metallic materials
			MSS SP 6	Manufacturer's standards society- standard finished for contact faces of pope flanges and connecting end flanges of valves and fittings
			MSS SP 25	Standard marking system for valves, fittings, flanges, and unions
			MSS SP 44	Steel pipe line flanges
			MSS SP 55	Quality standard for steel castings for valves, flanges, fittings, and other piping components - visual method for evaluation of surface irregularities
			MSS SP 84	Steel valves-socket welding and threaded ends

CODES AND STANDARDS FOR CIVIL ENGINEERING

Division Code: 03		Civil Engineering			
Item No.	Item Description	Components	Codes/ Sta	Codes/ Standards/ Acceptance Criteria/Test	
1	Air Quality	-	DOE Standa	ard Environment Conservation Rules 1997	
2	Bridge	Live Load	AASHTO LE	RFD Bridge / Design Specification 2012	
		Vehicular Live Load	Section	3.6.1.1	
		Design Vehicular Live Load	Section	3.6.1.2	
		Application of Design Vehicular Live Loads	Section	3.6.1.3	
		Fatigue Load	Section	3.6.1.4	
		Rail Transit Load	Section	3.6.1.5	
		Pedestrian Loads	Section	3.6.1.6	
		Loads on Railings	Section	3.6.1.7	
		Dynamic Load Allowance	Section	3.6.2	
		Centrifugal Forces	Section	3.6.3	
		Braking Force: BR	Section	3.6.4	
		Vehicular Collision Force:	Section	3.6.5	
		Water Load	AASHTO LE	RFD Bridge / Design Specification 2012	
		Static Pressure	Section	3.7.1	
		Buoyancy	Section	3.7.2	
		Stream Pressure	Section	3.7.3	
		Wave Load	Section	3.7.4	
		Change in Foundations Due to Limit State for Scour	Section	3.7.5	
		Wind Load	Section	3.8	
		Earthquake Load	Section	3.10	
		Earth Pressure	Section	3.11	
		Friction Force	Section	3.13	
		Vessel Collision	Section	3.14	
		Dead Load	Section	3.5	
		Load Factors and Combinations	Section	3.4	
3	Building	All	BNBC	Bangladesh National Building Code	
			ACI 318	American Concrete Institute	
4	Building Assessment and Retrofitting		ASCE 41-13	Seismic evaluation and retrofitting of existing buildings	

Divisi	on Code : 03		Civil Engineering		
Item No.	Item Description	Components	Codes/ Standard	s/ Acceptance Criteria/Test	
4	Building		BNBC	Bangladesh National Building Code	
	Assessment and Retrofitting (Contd.)		CNCRP	Manual for seismic evaluation of existing reinforced concrete buildings	
	,			manual for seismic retrofit design of existing reinforced concrete buildings	
			NTPA Guideline	National Tripartite Plan of Action on fire safety and structural integrity in garment sector of Bangladesh	
5	Culvert	-	AASHTO LRFD	American Association for State Highway and Transportation Officials	
			ACI	American Concrete Institute	
			ASTM	American Standard of Testing Materials	
			LGED Manual	Local Govt. Engineering Department	
6	DAM	-	BWDB Manual	Bangladesh Water Development Board	
		-	LGED	Local Govt. Engineering Department	
7	Deep Tube well	All Civil worksCable	ASTM	American Standard of Testing Materials	
		Electrical works	BDS	Bangladesh Standard	
		• Fittings	BNBC	Bangladesh National Building Code	
		• G.I pipe	BS	British Standard	
		HDPE pipe			
		MS pipe			
		Power Transformer PTW Housing pine			
		PTW Housing pipePump motor			
		Rebar			
		Sluice valve			
		Strainer			
		• uPVC pipes			
8	Economic Planning	-	DPP Manual	Development Project Proposal Manual of Bangladesh Planning Commission	
9	Elevated Road/Fly	-	ACI	American Concrete Institute	
	Overs/Subway		ASTM	American Standard of Testing Materials	
			BDS	Bangladesh Standard	
			BS	British Standard	
			IS	Indian Standard	
10	Embankment/ Polder/Dyke	-	BWDB Manual	Bangladesh Water Development Board	

Divisi	Division Code: 03		Civil Engineering		
Item No.	Item Description	Components	Codes/ Standards/ Acceptance Criteria/Test		
11	Irrigation	-	ACI 318R	American Concrete Institute	
			ASTM	American Standard of Testing Materials	
			BWDB Manual	Bangladesh Water Development Board	
12	Landfill	-	ASTM D1556	Standard test method for density and unit weight of soil in place	
13	Nuclear Power Plant	-	BAER Act 2012	Bangladesh Atomic Energy Regulatory Act 2012	
			NSRC Rules 1997	Nuclear Safety and Radiation Control Rules 1997	
14	Overhead Water	-	ACI	American Concrete Institute	
	Tank		ASTM	American Standard of Testing Materials	
			BDS	Bangladesh Standard	
			BNBC	Bangladesh National Building Code	
			BS	British Standard	
			IS	Indian Standard	
15	Physical Planning	-	DAP	Detail Area Plan Metro Plan	
16	Procurement	-	СРТИ	Public Procurement Rules 2008	
17	Road Geometric Design	Geometric Design of Roads	AASHTO	A policy on geometric design of highways and streets 2011, 6th Ed	
			BRTA	Bangladesh road sign manual volume- 1,2 Bangladesh Road Transport Authority 2000	
			RHD	Geometric design standard manual (revised 2005), Roads and Highways Department, Bangladesh	
18	Road Pavement Design	(a) Flexible Pavement	AASHTO	Guide for design of pavement structure - 4th Ed 1998	
			LGED	Road design standard – Standard design and costing for zila, upazila and union roads, bridges and culverts 2004	
			RHD	Pavement design guide for RHD, 2005	
			Road Note 29	A guide to the structural design of flexible or rigid pavements for new roads, TRL, UK	
			Road Note 31	A guide to the structural design of bituminous surface roads in tropical and sub-tropical countries, TRL, UK	

Divisi	ion Code : 03		Civil Engineering		
Item No.	Item Description	Components	Codes/ Standard	s/ Acceptance Criteria/Test	
18	Road Pavement Design (Contd.)	(b) Rigid Pavement	AASHTO	Guide for the design of pavement structures, 1993	
			IRC	Guidelines for the design of plain jointed rigid pavements for highways (IRC:58-2002)	
			LGED	Road design standard – Standard design and costing for zila, upazila and union roads, bridges and culverts 2004	
			RHD	Pavement design guide for RHD, 2005	
			Road Note 29	A guide to the structural design of flexible or rigid pavements for new roads, TRL, UK	
19	Sanitation and	-	DPHE	Bangladesh Sanitation Strategy	
	Drainage		BNBC	Bangladesh National Building Code	
20	Schedule of Items	-	BWDB	Schedule of rates, BWDB	
			LGED	Schedule of rates, LGED	
			PWD	Schedule of rates, PWD	
21	Sub-Soil	-	ACI	American Concrete Institute	
	Investigation /Foundation Design		ASTM	American Standard of Testing Materials	
	Design		BWDB Manual	Bangladesh Water Development Board	
			BNBC	Bangladesh National Building Code	
22	Tower	Transmission TowerTelecommunication	ASCE 10-97	Design of latticed steel transmission structural	
		Tower /Pole Electric Pole Spun Prestressed Concrete Pole	EJA/TIA 222	Structural steel standards for steel antenna towers and supporting structural standard	
			BSEN 100Y: 200Y	Mobile access and working towers made of prefabricated elements	
			REB 450	Rural electrification board specification	
			BPDB	Bangladesh Power Development Board Specification	
			DESCO	Dhaka Electric Supply Company Specification	
23	Waste Treatment	-	ACI	American Concrete Institute	
	Plant		ASTM	American Standard of Testing Materials	
			BDS	Bangladesh Standard	
			BNBC	Bangladesh National Building Code	
			BS	British Standard	
			IS	Indian Standard	

Division Code : 03		Civil Engineering		
Item No.	Item Description	Components	Codes/ Standards/ Acceptance Criteria/Test	
24	Water Quality and Water Treatment Plant	-	DOE Rule	Environment Conservation Rules 1997
25	Water Reservoir	-	ACI	American Concrete Institute
			ASTM	American Standard of Testing Materials
			BDS	Bangladesh Standard
			BNBC	Bangladesh National Building Code
			BS	British Standard
			IS	Indian Standard

CODES AND STANDARDS FOR COMPUTER ENGINEERING

To Be Included in the Next Edition.

CODES AND STANDARDS FOR ELECTRICAL ENGINEERING

Divis	Division Code: 05		Electrical E	ngineering
Item No.	Item Description	Components	Codes/ Standa	ards/ Acceptability Criteria/Test
1	Alarm	-	DIN 276:456	Fire detection and alarm system
			IEC 60839	Alarms and electronic security systems
2	Amplifiers	-	IEC 61290	Optical amplifiers-Test methods
			IEC 61291	Optical amplifiers
			IEC/TR 61292	Optical amplifiers
3	Audio Recording	-	IEC TS 60899	Sampling rate and source encoding for professional digital audio recording compact disc digital audio system
			IEC 60908	Audio recording compact disc, digital audio system
			IEC 61120	Digital audio tape recorder reel to reel system, using 6, 3 mm magnetic tape for professional use
4	Auto Re-closure (ACR)	-	ANSI/IEEE C37.60	High voltage switchgear and control-gear
			ANSI/IEEE C37.85	Safety requirements for X Radiation limits for AC high voltage
5	Battery	-	IEC-60146	Semiconductor converters- General requirements and line commutated converters-Part 1-1: Specification of basic requirements
6	Battery Charger	-	IEC 60335-2-29	Household similar electrical appliances safety part 2 Particulars requirement for battery charger
			IEC 61851	Electric vehicle conductive charging System
7	Cable	-	BS 6004	PVC Insulated and PVC Sheathed Cables for Voltage up to 300/500 Volt
			IEC 502-1	Quality Assessment-Organic Light Emitting Diode Elements
			IEC 60228	Conductors of Insulated Cables
		Voltage Grade 0.6/1(1.2)kV	1EC60502-1	Single core cables-PVC insulated & PVC Sheathed
				1.Unormoured (YY)
				2. Round Al wire armored (YRaY)
				Single core cables - XLPE insulated & PVC Sheathed
				1.Unormoured (2XY)
				2. Round Al wire armored (2XRaY)
				Core cables - PVC insulated & PVC Sheathed
				1.Unormoured

Division Code: 05			Electrical Engineering		
Item No.	Item Description	Components	Codes/ Standards/ Acceptability Criteria/Test		
7	Cable (Contd.)	Voltage Grade 0.6/1(1.2)kV	1EC60502-1	Core cables - XLPE insulated & PVC Sheathed	
				1.Unormoured (2XY)	
				Core cables - PVC insulated & PVC Sheathed	
				1.Unormoured (YY)	
				Round Galvanized steel wire armored (YRGY)	
				Flat Galvanized steel wire armored (YFGY)	
				Core cables - XLPE insulated & PVC Sheathed	
				1.Unormoured (2XY)	
				2.Round Galvanized steel wire armored (2XRGY)	
				Flat Galvanized steel wire armored (2XFGY)	
				1/2 core cables - PVC insulated & PVC Sheathed	
				1.Unormoured (YY)	
				Round Galvanized steel wire armored (YRGY)	
				Flat Galvanized steel wire armored (YFGY)	
				1/2 core cables - XLPE insulated & PVC Sheathed	
				1.Unormoured (2XY)	
				Round Galvanized steel wire armored (2XRGY)	
				Flat Galvanized steel wire armored (YFGY)	
				core cables - XLPE insulated & PVC Sheathed	
				1.Unormoured (2XY)	
				Round Galvanized steel wire armored (2XRGY)	
				Flat Galvanized steel wire armored (2XFGY)	
				1/2 core Concentric neutral PVC insulated Cables (YCY)	
		Voltage Grade 3.5/6kV	BDS 901:85 & VDE 0271	3 core PVC insulated, Copper shielded (NYSY)	

Divis	Division Code : 05		Electrical E	Engineering
Item No.	Item Description	Components	Codes/ Stand	ards/ Acceptability Criteria/Test
7	Cable (Contd.)	Voltage Grade 0.6/1 kV	BDS 901:85 & VDE 0271	Multicore Control Cables (NYY-1) PVC Insulated & PVC sheathed unarmored
				Single core, cables (NYY)
				Two core, PVC sheathed cables (NYY)
				Three core, PVC sheathed cables (NYY)
				Four core, PVC sheathed cables (NYY)
				PVC Insulated & PVC sheathed armored cables
				3 core (NYFGbY)
				3 1/2 core cable. (NYFGbY)
				4 core Cable (NYFGbY)
				Self-supporting Ariel cables
				Twin Core (NYMT)
				Three Core (NYMT)
				Four Core (NYMT)
		Voltage Grade	BDS 900:2000	Single Core PVC Insulated Cable (BYA)
		450/750V		Flat cable- PVC Insulated PVC Sheathed
				Twin Core (BYFY)
				Three Core (BYFY)
				Four Core (BYFYE)
				Single Core- PVC Insulated PVC Sheathed cables (BYM)
				PVC Insulated PVC Sheathed twisted round cables
				Twin Core (BYM)
				Three Core (BYM)
				Four Core (BYM)
		Voltage Grade	BS 2004	Single core PVC insulated cables (IYAL)
		250/440V		Single core cables-PVC insulated & PVC Sheathed (IYAL)
				Tween core PVC Sheathed Flat cable (IYAL
				Service drop cables 600/1000V (IYFY)
				Duplex Cables
				Quadruplex Cables

Division Code : 05			Electrical Engineering		
Item No.	Item Description	Components	Codes/ Standa	ords/ Acceptability Criteria/Test	
7	Cable (Contd.)	Voltage Grade	BS 2004	Flexible Cable	
		250/440V		1. Single core, PVC insulated	
				2.Twin Core twisted (without sheath)	
				3.Twin core, PVC sheathed	
				4. Three core. PVC sheathed	
				5. Four core, PVC sheathed	
		Voltage Grade 200V	BS 2004	PVC sheathed Welding Cables	
		Voltage Grade	BS 2004	PVC insulated Flexible Cables,	
		600/1000 V		Single core, PVC sheathed cables (NYYF)	
				Two core, PVC sheathed cables (NYYF)	
				Three core, PVC sheathed cables (NYYF)	
				Four core, PVC sheathed cables (NYYF)	
		-	EN 50265	Cables have to be flame-retardant testing	
			EN 60332	Tests on electric and optical fibre cables under fire condition	
			EN 60811	Insulating and sheathing materials of electric cables and optical cables	
			IEC 60096	Radio frequency (coaxial cables)	
			IEC 60189	Cables have to be flame-retardant testing	
			IEC 60331	Marine and offshore cables	
			IEC 60794-1-2- F5A	Optical fibre cable tensile tester	
			IEC 60800	Heating cables with a rated voltage of 300/500 V for comfort heating and prevention of ice formation	
			IEC 61196	Communication (coaxial cables)	
			IEC 61423	Cables for heating purposes	
8	Cable	-	DIN 276:444	Cable routing systems	
	(Optical fiber)		EN 60793	Cables with optical fibres	
			IEC 60794	Optical fiber cables	
9	Capacitors	-	IEC 60110	Power capacitors for induction heating installations	
			IEC 60252	AC Motor capacitors	
			IEC 60358	Coupling capacitors and capacitor divider	
			IEC 60384	Fixed capacitors for use in electronic equipment	
			IEC 61076	Connectors for electrical equipment product requirements	
			IEC 61921	Power capacitors low voltage power factor correction banks	

Divisi	Division Code : 05		Electrical Engineering		
Item No.	Item Description	Components	Codes/ Standa	ards/ Acceptability Criteria/Test	
10	Charge Controller	-	IEC 62093	Balance of system components for photovoltaic systems- Design qualification natural environments	
			IEC 62509	Battery charge controllers for photovoltaic systems-Performance and functioning	
11	Circuit Breaker	-	IEC 60934	Circuit-breakers for equipment (CBE)	
			IEC 62271-1	High voltage switchgear and control gear Part 1: Common specification	
12	Conductor	-	ASTM B1	Standard specification for hard-drawn copper wire	
			ASTM B2	Standard specification for medium-hard- drawn copper wire	
			ASTM B3	Standard specification for soft and annealed copper wire	
			ASTM B230	Standard specification for aluminum for 1350-H19 wire for electrical purposes	
			ASTM B231	Standard specification for concentric-lay- stranded aluminum 1350 conductors	
			ASTM B232	Standard specification for concentric-lay- stranded aluminum conductors, coated- steel reinforced (ACSR)	
			ASTM B398	Standard specification for aluminum-alloy 6201-T81 & 6201-T83 wire for electrical purposes	
			ASTM B399	Standard specification for concentric-lay- stranded aluminum-alloy 6201-T81 conductors	
			ASTM B609	Standard specification for aluminum 1350 round wire, annealed and intermediate tempers, for electrical purposes	
			BDS 1036	AAC (Stranded all aluminium conductor), specifications/ratings	
			BDS 1037	Aluminium conductor steel reinforced (ACSR) specification	
			BS 215-1	Specification for aluminium conductor, steel reinforced for overhead power transmission, aluminium stranded conductor	
			BS 6485	PVC-covered conductors for overhead power lines	
			IEC 60228	International standard for conductors of insulated cables	
			IEC 62271-207	High voltage switchgear and control gear Part 207: Seismic qualification for gas insulated switchgear assemblies for rated voltage above 52 kV	

Division Code : 05			Electrical Engineering		
Item No.	Item Description	Components	Codes/ Standa	rds/ Acceptability Criteria/Test	
13	Connectors	-	EN 50250	Conversion adaptors for industrial use	
			EN 60998-1/-2	Connecting devices for low voltage circuit for household and similar purpose-Part1	
			IEC 60130-1	Connectors for frequencies below 3 MHZ, Part 1: General requirements and measuring methods	
			IEC 60169	Radio frequency connectors	
			IEC 60498	High voltage coaxial connectors used in nuclear instrumentation	
			IEC 61076	Connectors for electrical equipment- product requirement	
			IEC 61984	Connectors-safety requirements and tests	
			IEC TR 61602	Connectors used in the field of audio, video and audiovisual engineering	
14	Current Transformer	-	IEC 60044-1	Instrument transformers Part 1	
15	Fuses	-	EN 60127	Miniature fuses	
			EN 60269	Standard for low voltage power fuses	
16	Insulator	-	BS 916	Specification for black bolts, screws and nuts, hexagon and squire with B.S.W	
			BS 3288	Insulator and conductor fittings for overhead power lines, performances and general requirements	
			IEC 60383	Insulators for overhead lines with a nominal voltage above 1000 V Part 1: Ceramic or Glass insulator unit for A.C systems	
			IEC 60437	Radio interference test on high voltage insulators	
			IEC 60575	Thermal-Mechanical performance test and Mechanical performance test on string insulator units	
17	Inverter	-	IEC 61000-6-2	Electromagnetic compatibility (EMC)-Part 6-2: Generic standards immunity for industrial environments	
			IEC 61000-6-4	Electromagnetic compatibility (EMC)-Part 6-4: Generic standards – Emission standard for industrial environment	
			IEEE 1547	Standards interconnecting distributed resources with electric power systems	
			UL 1741	Test items and new coming fault ride through for greed connected new energy test requirements	

Divisi	Division Code : 05		Electrical Engineering		
Item No.	Item Description	Components	Codes/ Standa	ards/ Acceptability Criteria/Test	
18	Isolator	-	IEC 60129	Alternating current dis-connectors and earthling switches	
19	Lamp	-	IEC 60357	Tungsten halogen lamps (non-vehicle) performance specification	
			IEC 60434	Air craft electrical filament lamps	
			IEC 60921	Ballast for tubular fluorescent Lamps- performance requirements	
20	Lightening Arrester	-	IEC 60282-2	High voltages fuses Part 2: Expulsion fuses	
21	Medical Equipment	-	IEC 60580	Medical electrical equipment - Dose area product meters	
			IEC 60601-1	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance	
			IEC 60976	Medical electrical equipment - Medical electron accelerators - Functional performance characteristics	
			IEC 61262	Medical electrical equipment - Characteristics of electro optical X-Ray image intensifiers	
			IEC/TR 61289	High frequency surgical equipment operation and maintenance	
22	Meter	-	IEC 62054	Electricity metering (AC) tariff and load control	
			IEC 62055	Electricity metering-payment systems	
			IEC/TR 60736	Testing equipment for electrical energy meters	
23	Photovoltaic (PV) Modules	-	IEC 60891	Procedures for temperature and irradiance corrections to measure I-V characteristics	
			IEC 60904-5	Determination of the equivalent cell temperature (ECT) of PV devices by the open-circuit voltage method	
			IEC 61215-1	Terrestrial photovoltaic (PV) modules- Design qualification and type approval- Part 1: Test requirements	
			IEC 61701	Salt mist corrosion testing of PV modules	
			IEC 61730	Photovoltaic (PV) module safety qualification	
24	Plugs and Socket	-	IEC 60884	Plugs and socket outlets for household and similar purposes	
			EN 60309-1	Plugs, socket-outlets and couplers for industrial purposes	
			EN 60320 C 14	Inlet AC power socket with up to 15 A/ 250 V AC	
			EN 61210	Connecting devices-flat quick-connect terminations for electrical copper conductors	

Divisi	ion Code : 05		Electrical Engineering		
Item No.	Item Description	Components	Codes/ Stand	dards/ Acceptability Criteria/Test	
25	Potential Transformer	-	IEC 60044-2	Instrument transformers Part 2: Inductive voltage	
26	Printed board	-	IEC 61188	Printed boards and printed board assemblies - Design and use	
27	Radar	-	IEC 62388	Maritime navigation and radio communication equipment and systems - Shipborne radar	
28	Radio Therapy Equipment	-	IEC 61217	Radio therapy - Coordinates movements and scales	
			IEC 61267	Medical diagnostic X-Ray equipment radiation conditions for use in the determination of characteristics	
29	Safety (Electrical)	-	IS 659	Safety code for air-conditioning	
			IS 732	Code of practice for electrical wiring installations	
			IS 807	Code of practice for design, manufacturing, erection and testing of cranes and hoists	
			IS 816	Code of practice for safely and health requirements in electric and gas welding and cutting operations	
			IS 818	Code of practice for safety and health requirements in electric and gas welding and cutting operations	
			IS 1641	Code of practice for fire safety of buildings: General principles and fire grading and classification	
			IS1644	Code of practice for fire safety of buildings: personal hazard	
			IS1646	Code of practice for ;ire safety of building (general): Electrical	
			IS 1860	Code for practice for installation, operation and maintenance of electric passenger and good lifts	
			IS 1886	Code of practice for installation and maintenance of transformers	
			IS 2148	Flameproof of enclosures of electrical apparatus	
			IS 2171	Portable fire extinguishers, DCP (cartridge type)	
			IS 2189	Code of practice for selection, installation and maintenance of automatic fire detection and alarm system	
			IS 2206	Flameproof electric lighting fittings	
			IS 2305	Code of practice for the protection of buildings and allied structures against lightning	

Divis	Division Code: 05			Electrical Engineering		
Item No.	Item Description	Components	Codes/ Sta	ndards/ Acceptability Criteria/Test		
29	Safety (Electrical) (Contd.)	-	IS 2493	Lighting, fittings, well-glass, for use under- ground in mines (non-flame proof type)		
			IS 2512	Batteries(lead-acid) for miners cap lamp		
			IS 2772	Transformers, mining, non-flameproof, for use below ground		
			IS 2878	Portable fire extinguishers, carbon dioxide type		
			IS 3034	Electrical generating an: distributing stations.		
			IS 3043	Code of practice for earthing		
			IS 3070	Lighting arrestors for AC systems		
			IS 3072	Code of practice for installation and maintenance of Switchgear,		
			IS 3151	Electrical safety code for earthing transformer		
			IS 3696	Code of safety for ladders and scaffoldings		
			IS 40P1	Safety code for blasting and related drilling operations		
			IS 4155	Glossary of terms relating to chemical and radiation hazards		
			IS 4160	Switch socket outlets, interlocking.		
			IS 4209	Code of safety for chemical laboratories		
			IS 4648	Electrical layout in residential buildings, guide		
			IS 4756	Safety code for tunneling work		
			IS 4850	Lighting arrestors for ac systems, expulsion type, application guide		
			IS 5121	Safety code for piling and other deep foundations		
			IS 5950	Cables, shot firing		
			IS 6305	Safety code for power industrial trucks		
			IS 6619	Semiconductor rectifier equipment, safety code		
			IS 7620	Medical Electrical Equipment - general and Safety.		
			IS 7631	Stability tests for pallets stockers and high lift platform trucks (pedestrian and rider controlled)		
			IS 7689	Guide for control of undesired static electricity		
			IS 7693	Electrical apparatus for use in explosive gas atmospheres, oil-immersed		

Divisi	ion Code : 05		Electrical	Engineering
Item No.	Item Description	Components	Codes/ Stan	dards/ Acceptability Criteria/Test
29	Safety (Electrical) (Contd.)	-	IS 7724	Electrical equipment for use in explosive atmospheres, sand filled protection
			IS 7733	Electrical wiring installation in hospitals code of practice
			IS 7969	Safety code for handling and storage of building materials
			IS 8940	Code of practice for maintenance and care of industrial safety equipment for eye and face protection
			IS 8945	Electrical measuring instruments for explosive gas atmospheres
			IS 9623	Recommendations for the selection, use and maintenance of respiratory protective devices
			IS 9836	Electrical and electronic equipment for coal exploders.
			IS 9858	Electronic measuring apparatus, safety requirements
			IS 9937	Specification for portable methanometer (electrical type)
			IS 13415	Code of safety for protective barriers in and around building
			IS 111478	Radiation safety requirement
30	Satellite	-	IEC 61319	Interconnections of satellite receiving equipment
31	Semi-conductor	-	IEC 60747	Semi-conductor devices
			IEC 60748	Semi-conductor devices-integrated circuits.
32	Switch	-	DIN 276:444	Switch and plug devices
			EN 60669	Button and switches
			IEC 60669	Switches for household and similar fixed electrical installations
33	Switchgear	-	EN 50298, EN 60439-1	Enclosures for low-voltage switchgear combinations
			IEC 62271-1	High voltage switchgear and control gear Part 1: Common specification
34	Transformer	-	EN 61558	Transformers, power supply
			IEC 60076	Online collection- Power transformers
			IEC 60726	Dry type power transformer
35	Turbine (Gas and	-	IEC 60045	Steam turbines - Part 1: Specifications
	Steam)		IEC 60953-1	Rules for steam turbine thermal acceptance test part-1

Division Code : 05		Electrical E	ngineering	
Item No.	Item Description	Components	Codes/ Standards/ Acceptability Criteria/Test	
36	Washing Machine	-	IEC 60456	Clothes Washing Machines for household use methods for measuring the performance
37	Wire	-	DIN 276:444	Cables and wires
			IEC 60034-18- 21	Functional evaluation of insulation systems test procedures for wire ward windings thermal evaluation and classification
			IEC 60318	Specification for particulars of winding wires

CODES AND STANDARDS FOR MECHANICAL ENGINEERING

Divisi	on Code : 06		Mechanical Engineering	
Item No.	Item Description	Components	Codes/ Standa	rds/ Acceptability Criteria /Test
1	Adapter	Compression Test	BS 2782	Methods for testing plastics
	BendConnectorsPVC Pipe	Cross jointsDimension TestEnd Condition	BS 3505	Specification for unplasticized polyvinyl chloride (uPVC) pressure pipes for cold potable water.
	ReducerR. ScreenSand Trap	Flattening TestHardness TestHeat Reversion Test	BS 4346-1	Joint and fifing for use with uPVC pressure pipes injection moulded uPVC fittings for solved welding for use with pressure pipes
	Straight CouplingS. S. Strainer	Impact Strength TestModulus of Elasticity Test	BS 4514	Specification for unplasticized PVC soil and ventilating pipes, fittings and accessories
		 Percentage Elongation Test 	ISO 2505	Thermoplastics pipes industrial reversion Test Method
		PressureResistance to Acetone Test	ISO 3472	uPVC pipes specification and determination of resistance to acetone
		Resistance to Sulfuric Acid TestSocket Depth	ISO 3127	Thermoplastics pipes determination of resistance to external blows round the clock method.
		Specific Gravity TestTee and Y joints	ISO 4422	Pipes & fittings made of uPVC for water supply
		Tensile Strength TestTension Test	ISO 119221	Thermoplastics pipes for the conveyance of fluids
		Water Absorption Test	-	Standard Used: Manufacturer's Specifications
2	Air-conditioning system	Installation of Air- Conditioning and Ventilating Systems	NFPA 90A	Standard test methods for the installation of air conditioning and ventilating systems
3	Bearing Pad	0.2% Proof LoadAbrasion	ASTM D297	Standard test method for rubber products- chemical Analysis.
		 Accelerated aging Adhesion Strength Aging @ 100^OC for 4 	ASTM D395	Standard test method for rubber property compression set; and described in test method
		dayAsh ContentCompressive StrainCreep DeflectionDimension	ASTM D412	Standard test methods for vulcanized rubber and thermoplastic elasto meterstension ASTM
		 Elastomer Content Grade Evaluation Test Hardness Heat Persistence Test Liquid test 	ASTM D429	Standard test method for rubber property - Adhesion to rigid substrates

Divisio	on Code : 06		Mechanical E	ngineering
Item No.	Item Description	Components	Codes/ Standards	s/ Acceptability Criteria /Test
3	Bearing Pad (Contd.)	70°C for 4 dayLow Temperature	ASTM D573	Standard test Method for rubber detrition in air oven
		Brittleness Max. compression set at 100°C for 24 hours	ASTM D2240	Test Method designed to test the depth of an indentation in the material being tested
		 Maximum change in hardness Minimum Elongation at Break Minimum Tensile Strength Peel Strength/ Vulcanized Bond Shear Modulus Test Short term Duration Compression Strength Test Breaking Load Tear Strength Tensile Strength Test of Steel Laminates Ultimate Elongation Vulcanized bond test (peel strength) 	ASTM D4014	Specification for plain and steel laminated elastomeric bearings for bridges
4	Cast iron Pipe	-	BS 416	Specification for cast iron, spigot and socket seal waste band ventilating pipes.
5	Conveyer Rubber Belt	Longitudinal directionTransverse strength	ASTM D2240 BDS 1200 (part-1)	Test Method designed to test the depth of an indentation in the material being tested Bangladesh Standard
		 Carrying capacity Diameter of pulleys Diametrical Compression Test (width of belt thickness, ply Number, cover thickness) Hole location tests Nylon Fabric belt tensile strength Specific Weight 	(part 1)	

Divisi	on Code : 06		Mechanical Engineering	
Item No.	Item Description	Components	Codes/ Standar	ds/ Acceptability Criteria /Test
5	Conveyer Rubber Belt (Contd.)	 Test of Full Thickness Percentage Elongation in Longitudinal Direction Test of Hardness Unit weight (kg/m2) of surface Working Strength 		
6	Fiber Glass Strainer	 Axial Compression Test Axial Tension Test Diametrical Compression Test 	ASTM D2105 ASTM D2412	Standard test Method for longitudinal tensile properties of fiber glass Testing standard used to determine the stiffness and load deflection of plastic pipes.
		DimensionPost Boiling TestPre Boiling Test		plastic pipes.
7	equipment (fire door)	ExtinguisherFire- pumps	ASTM	American Society for Testing and Materials
		Fire resistance rating	BNBC	Bangladesh National Building Code
	Hose Tutio quick an	Sprinkler system	NFPA	National Fire Protection Association
	ExtinguisherFire pump etc.	• Fire-door	-	Fire service rule 1961;
	File pullip etc.	Fire-water tubeFlow-test	-	Fire Resist and Extinguish Act 2003
		Hose pipe		_
		• Riser		
		Smoke density		
		System design		
		Test of installation		
8	Fish Plate	Compressive strength	ASTM A370	Mechanical test methods for steel
		Cross breaking strength	BS 2782	Methods for testing plastics
		Flexural modulus		
		Impact strength		
		Melting pointShear strength		
		Specific gravity		
		Tensile strength		
		Yield strength		
		Acidity		
		Ash content and carbon residue viscosity grade of oil		

Divisi	on Code : 06		Mechanical Engineering		
Item No.	Item Description	Components	Codes/ Standard	ds/ Acceptability Criteria /Test	
9	Fuel	Calorific value of coal Calorific value of liquid fuel, gas	ASTM D92	Standard test method for flash and fire points by Cleveland open cup tester	
		Carbon residue Coal	ASTM D95	Standard test method for water in petroleum products and bituminous materials by distillation	
		Copper strip corrosion Cu-corrosion	ASTM D97	Standard test method for pour point of petroleum products	
		 Density / specific gravity Fire point of liquid fuels 	ASTM D130	Standard test method for detection of copper corrosion from petroleum products by the copper strip test	
		Flash point Gray king coal swelling index	ASTM D189	Standard test method for Conradson carbon residue of petroleum products	
		 Kinematic viscosity Moisture content Proximate analysis of coal Rust inhibitor 	ASTM D240	Standard specification for chromium and chromium nickel stainless steel plate, heat and strip for pressure vessels and for general applications	
		Sulphated ashTotal acid no/valueTotal base no	ASTM D445	Standard test method for kinetic viscosity of transparent and opaque liquids	
		Viscosity of oils (viscosity index)	ASTM D482	Standard test method for Ash from petroleum products	
		Water contentWater content in ppmWater separability	ASTM D1298	Standard test method for density, relative density or API gravity of crude petroleum and liquid petroleum products by hydrometer method	
			ASTM D1401	Standard test method for water separability of petroleum oils and synthetic fluids.	
			ASTM D1826	Standard test method for calorific (heating) valve of Gases in natural gas range by continuous Recording calorimeter	
			ASTM D2270	Standard practice for calculating viscosity index from kinematic viscosity at 40°c	
			ISO 3448	Industrial liquid lubricants	
10	Fumigation sheet	 Elongation (%) Tear strength (N)	ASTM D4533	Standard test method for trapezoid tearing strength of geotextiles.	
		• Temp. stability (length + width) 15000 + 15000	ASTM D5035	Breaking force and Elongation of textile fabrics (Strip Method)	
		Tensile strength (N/50mm)			

Divisi	on Code : 06		Mechanical Engineering		
Item No.	Item Description	Components	Codes/ Standard	ds/ Acceptability Criteria /Test	
11	G.I Pipe	 Bending test Bursting pressure test Dimension test End condition Galvanizing test Hydrostatic pressure test Weight test 	BS 1387	Specification for screwed and socketed steel tubes and tubular and for plain end steel tubes suitable for welding or for screwing to BS 21 Pipe threads	
12	G.I sheet	Bend testDimension test (includes pitch, depth,	ASTM A70	Standard specifications for carbon steel plates for stationary boilers and other pressure vessels	
		thickness and gauge)Zinc coating test	BS 729	Specification for hot dip galvanized coatings on iron and steel	
			BS 4360	Specification for wieldable structural steels	
13	Glass filled nylon	-	ASTM D638	Standard test Method for tensile properties of plastics	
			ASTM D785	Standard test method for Rockwell hardness of plastics and electrical insulating materials.	
			BS 2782	Part-5 Tem 23+23+2 C: methods of testing plastics optical and color properties, weathering	
			IS 10102	Technical supply conditions for rivets	
14	Grooved Rubber Pad	 Hardness test Test of elongation at break Test of modulus (relaxed) test of compression set Test of tension set Test of tensile strength 	IRS T-37	Indian Railway Standard: Grooved rubber sole plates 4.5 mm thick.	
15	High Tension Wire/ Cable	 Elongation Elongation at rupture Extra for grips Grade Modulus of elasticity Test Proof load Stress/strain curve Stress/strain separate Tensile strength Test of diameter Test of unit weight 	IS 1785 (part 1)	Plain hard drawn steel wire for prestressed concrete, Part 1: Cold drawn stress-relieved wire	

Divisi	Division Code : 06			Mechanical Engineering		
Item No.	Item Description	Components	Codes/ Standar	rds/ Acceptability Criteria /Test		
15	High Tension Wire/ Cable (Contd.)	Test of yield strength (at 1% extension under load) Ultimate strength				
16	Hose Pipe	Working pressure test	-	Standard Used: Supplier's Specification Standard Used: WASA Specifications		
17	Insulation	 R-value Thermal conductivity Thermal conductivity and R-value Water absorption 	-	Standard Used: Supplier's specifications		
18	Lift (Elevator)	• Car	ASME A90.1	Safety standard for belt manlift		
		 Hoist way Machine/drive system	ASME A18	Safety standard for platform lifts and stairway chairlifts		
		Control system	BNBC	Bangladesh National Building Code		
		Safety system	EN 81-20	Safety rules for the construction and installation of lifts- Lifts for the transport of persons and goods. Passenger and goods passenger lifts		
			EN 81-50	Safety rules for the construction and installation of lifts- Examinations and tests- Part 50: Design rules, calculations, examinations and tests of lift component		
			NFPA 101	Life safety code is the most widely used source for strategies to protect people based on		
19	M. S. Housing pipe	 Dimension test External hydrostatic pressure test Internal hydrostatic pressure test Strength test (axial tension) Strength test (compression) 	-	Manufacturer's specification		
20	M. S. Deformed Bar (Rod)/deformed sheet	 Percent elongation Dimension test Impact test Tensile strength Ultimate strength 	ASTM A505 ASTM A370	Standard specification for steel, sheet and strip, alloy, hot rolled and cold rolled, general requirements Standard test methods and definitions for mechanical testing of		
		Unit weight per kg. Yield strength		steel products		

Divisi	on Code : 06		Mechanical Engineering		
Item No.	Item Description	Components	Codes/ Standar	ds/ Acceptability Criteria /Test	
20	M. S. Deformed Bar (Rod)/Deformed sheet (Contd.)	-	ASTM A615	Standard specification for deformed and plain carbon-steel bars for concrete reinforcement in cut-lengths and coils	
			BDS ISO 6935	Bangladesh standard steel for the reinforcement of concrete	
21	Motor Test	 10 kW < P ≤ 25 kW (100 hr + Performance) 25 kW < P ≤ 50 kW (100 hr + Performance) Power (P) ≤ 10 kW (100 hr + Performance) P > 50 kW (100 hr + Performance motor for vertical hollow shaft) 	IEEE Std 112	Standard test procedure for polyphase induction motors and generators	
22	Motor Vehicle	Comparison of local made spare parts (destructive test) Mechanical motor cycle Properties between colored & without colored alloy wheel of motor cycle Comparison of mechanical properties between colored & without colored alloy wheel of motor cycle Four Wheeler (Pickup / Van up to 1500kg) Minibus (Pickup / Van up to 2000kg) Bus (Track / Van up to 5000kg.)	-	Emission standards, Department of Environment, Bangladesh	
23	Nuts and Bolts	 Percent elongation Compressive strength Diamond strength Modulus of elasticity Poisson's ratio 	ASTM A370	Standard test methods and definitions for mechanical testing on steel products	
24	Pump Test	 Submersible pump (A) with variable voltage (280-440VAC) Submersible pump (A): Q>2 cusec, H>150 ft / 45.7 m 	- - NFPA 20	Manufacturer's specification IDCOL, Bangladesh specified standard (Solar Pump) Standard for the installation of stationary pumps for fire protection	

Divisi	on Code : 06		Mechanical Engineering		
Item No.	Item Description	Components	Codes/ Standards/ Acceptability Criteria /Test		
24	Pump Test (Contd.)	 Submersible pump (B) with variable voltage (280-440VAC) Submersible pump (B): Q >2 cusec, H>150 ft / 45.7 m Tensile Strength Test Test of Dimension Tightening Torque Test Yield strength test Centrifugal pump: 2 < Q ≤ 5 cusec, H ≤ 100 ft / 30.5 m Centrifugal pump: Q ≤ 2 cusec, H ≤ 100 ft / 30.5 m Fire lighting pumps High head (H > 100 ft / 30.5 m) multistage centrifugal pump Solar Pump Submersible pump star-delta starter, main switch test 	- Manufacturer's specification - IDCOL, Bangladesh specified standard (Solar Pump) NFPA 20 Standard for the installation of stationary pumps for fire protection		
25	PVC Water Stopper	 Aged percent elongation test Aged tensile strength Cold brittleness Compression set for 24 hours at 100°c Hardness Heat persistence Including aging Percentage elongation Specific gravity Stiffness in flexure Tensile strength 	ASTM D395 Standard test method for rubber property compression set; and described in test method ASTM D412 Standard test methods for vulcanized rubber & Thermoplastics elastomers Tension ASTM D573 Standard test Method for rubber detrition in air oven ASTM D2240 Test Method designed to test the depth of an indentation in the material being tested		
26	Reinforcing Plate	Compression set for 10/100/1000 hours Elongation at break Minimum tensile strength Rail / Steel clippers Relaxation cost % for 10 hours Yield strength	- Standard Used: Supplier's specifications		

Divisi	on Code : 06		Mechanical Engineering		
Item No.	Item Description	Components	Codes/ Standard	ls/ Acceptability Criteria /Test	
27	Rubber Sheets	Percent elongation test	ASTM D395	Standard test method for rubber property compression set	
		Compression setHardness testSpecific gravity test	BS 903 Part A 2	Physical testing of rubber. Determination of tensile stress strain properties	
		Tensile strength testTension set	IRS T-37	Indian Railway Standard: Grooved rubber sole plates 4.5 mm thick.	
		Test of modulus	IRS T-47	Indian Railway Standard: Grooved rubber sole plates 6.0 mm thick.	
28	(a) Sluice Valve (b) Other Valves	Pressure test (gland and seat)	BS 5150	Specification for cast iron gate valves	
			BS 5163	Specification for permanently key operated cast iron gate valves for water work purposes	
29	Steel Products	 Bend test Dimension test Hardness Modulus of elasticity Pressure test Tensile strength test Test of elongation Test of thickness Ultimate elongation Ultimate strength Yield strength test 	ASTM A70	Standard specifications for carbon steel plates for stationary boilers and other pressure vessels	
			ASTM A370	Standard test methods and definitions for mechanical testing of steel products	
			ASTM A500	Standard specification for cold- formed welded and seamless carbon steel structural tubing	
			ASTM E18	Standard test methods for Rockwell hardness of metallic materials	
			ASTM E290	Standard test methods for bend testing of material for ductility	
			BS 4360	Specification for weldable structural steels	
30	Steel Strips	Dimension testTensile and yield strengthUltimate elongation	ASTM A370	Standard test methods and definitions for mechanical testing of steel products	
31	Steel Tube	 Flange Test Flattening Test Hydrostatic Pressure Test Reverse Bending Test 	ASTM A370	Standard test methods and definitions for mechanical testing of steel products	
32	Welding Electrode	Elongation test	API 1104	Standard for welding pipelines and related facilities	

Division Code : 06		Mechanical Engineering		
Item No.	Item Description	Components	Codes/ Standar	ds/ Acceptability Criteria /Test
33	Welding Procedure	 Face band test Neck band test Root band test Tensile strength test Tensile strength test 	API 1104	Standard for welding pipelines and related facilities
	Division Code : 06	Mechanical Engineeri	ng (Naval Architectu	re and Marine Engineering)
34	Air-Conditioning	-	ISO 7547	Ships and marine technology- Air- conditioning and ventilation of accommodation spaces - Design conditions and basis of calculations
			ISO 8864	Air-conditioning and ventilation of wheelhouse on board ships- Design conditions and basic of calculations
35	Cabling	-	ANSI/TIA/ EIA-568-B	Commercial building telecommunication cabling standard
			IEC 61156-5	Multicore and symmetrical pair/ quad cables for digital communication-Part 5: Symmetrical pair/quad cables with transmission characteristics up to 1000 MHz- Horizontal floor wiring-Sectional specification
			IEC 61156-6	Multicore and symmetrical pair/ quad cables for digital communication-Part 5: Symmetrical pair/quad cables with transmission characteristics up to 1000 MHz-Work area wiring-Sectional specification
			ISO/IEC 11801	Generic cabling for customer premises
36	Carrying Capacity and Registration	-	ITC	International Convention on Tonnage Measurement of Ships
37	Cathodic Protection Materials	-	ASTM A518	Standard specification for corrosion- Resistant high-silicon iron castings
			ASTM G97	Standard test method for laboratory evaluation of magnesium sacrificial anode test specimens for underground applications
38	Class Notations	-	BV Rules	Part E: Additional class notations
			DNV-GL	Part VI- Additional class notations
			RINA	Part F: Additional class notations
39	Class Ship Building (Hull and Stability)		BV Rules	Part B: Hull and stability
	(Truil ariu Stability)		DNV-GL	Part III- Hull

Division Code : 06		Mechanical Engineering			
Item No.	Item Description	Components	Codes/ Standards/ Acceptability Criteria /Test		
39	Class Ship Building (Hull and Stability) (Contd.)	-	LR	Part III- Ship structure (General), Part IV: Ship structure (Ship types), IMO Regulations	
			NK Rules	Part: U (Intact stability)	
				Part W: Load lines	
				Part CS: Hull construction and equipment of small ships	
			RINA	Part B: Hull and stability	
40	Class Ship Building	-	BV Rules	Part A: General rules	
	(Surveys and			Part B: Class surveys	
	Classification)			Part I: Polar class ships and ice class ships Part O: Work-Ships Part P: Mobile offshore drilling units and special purpose barges Part PS: Floating offshore facilities for crude oil / petroleum gas production, storage and offloading Part T: Submersibles	
			DNV-GL	PART I: General regulations	
			LR	Part I- Regulations Part VII: Other ship types and system Part VIII: Rules for ice and cold operation	
			RINA	Part A: Classification and surveys	
41	Crews	-	MLC 2006 (ILO)	Maritime Labour Convention, 2006 – International Labour Organization	
			LSA Code	Life Saving Appliances Code	
			STCW	International Convention on standards of training, certification and watchkeeping for seafarers	
42	(a) Electrical Installation	-	BV Rules	Part C: Machinery, electricity, automation and fire protection	
	(b) Automation		Class NK	Part R	
	(c) Fire Protection		DNV-GL	Part IV- System and Component	
	(d) Detection and Extinction		LR	Part VI- Control, Electrical and Fire	
43	Electrical Wiring	-	AS/NZS 3000	Australian/New Zealand wiring rules	
			BS 7671	Requirements for electrical installations. IET wiring regulations	
			IEC 60364	Low voltage electrical installations - Part 1: Fundamental principles, assessment of general characteristics, definition	
			IEE	Wiring regulations	

Division Code : 06			Mechanical Engineering		
Item No.	Item Description	Components	Codes/ Standard	ds/ Acceptability Criteria /Test	
44	Environment and Environ Protection	-	MARPOL	International Convention for the Prevention of Pollution from Ships	
			MEPC	Marine Environment Protection Committee	
			NOx Technical Code	Technical code on control and emission of nitrogen oxide from marine diesel engine	
45	Equipment	-	Class NK	Rules and guidance for the survey and construction of steel ships - Part L: Equipment	
46	High Speed Vessel	-	HSC 2000	International code of safety for high speed craft	
47	Inland Ship Building/ Ship	-	DOS: ISO	Department of Shipping: Indian Shipping Ordinance	
	Construction		Jahaj Nirman Bidimala 2001, Bangladesh	Rules and guidance for the survey and construction of inland waterway ships	
48	Machinery	-	BV Rules	Part C: Machinery, electricity, automation and fire protection	
			Class NK	Part C: Hull construction and equipment Part D: Machinery installations	
			DNV-GL	Part IV: System and component	
			LR	Part V: Main and auxiliary machinery	
			RINA	Part C: Machinery, systems and fire protection	
49	Materials	-	Class NK	Part K	
			DNV-GL	Part II- Materials and Welding	
			LR	Part II-Rules for Manufacture, Testing and Certification of Materials	
			RINA	Part D: Materials and Welding	
50	Pipe	-	ANSI	American National Standards Institute	
			API	American Petroleum Institute	
			ASHRAE	American Society of Heating, Refrigerating and Air-Conditioning Engineers	
			ASME	American Society of Mechanical Engineers	
			ASTM	American Standard for Testing and Materials	
			BSI	British Standards Institution	

Division Code: 06			Mechanical Engineering		
Item No.	Item Description	Components	Codes/ Standards/ Acceptability Criteria /Test		
50	Pipe (Contd.)		CEN	European Committee for Standardization	
			DIN	Deutsches Institut für Normung	
			ISO	International Organization for Standardization	
51	Security and Management	-	ISM	International Safety Management Code for the Management and Operation of Ships	
			ISPS	International Ship and Port Facility Security	
52	Service	-	BV Rules	Part D: Service notations	
			DNV-GL	Part V: Ship types; Part VII: Fleet in service	
			RINA	Part E: Service notations	
53	Ship Recycling	-	ISO 30000	Ships and marine technology - Ship recycling management systems -	
			ISO 30002	Specifications for management systems for safe and environmentally sound ship recycling	
			ISO 30003/ ISO 30004	Ships and marine technology - Ship recycling management systems	
			ISO 30005	Information control for hazardous materials in the manufacturing chain of shipbuilding and ship operations	
			ISO 30007	Ships and marine technology - Measures to prevent asbestos emission and exposure during ship recycling	
54	Ship Safety	-	BLU Code	International Maritime Organization	
			FSS Code	International Code for Fire Safety System	
			IGF Code	International Code of Safety for Ships Using Gases or Other Low- Flashpoint Fuels	
			OSV Code	Code of Safe Practice for the Carriage of Cargoes and Persons by Offshore Supply Vessels	
			SOLAS	International Convention for the Safety of Life at Sea	
55	(a) Sports Ship	-	LY2	The Large Yacht Code (version-2)	
	(b) Yacht		LY3	The Large Yacht Code (version-3)	
			MCA	Maritime and Coastguard Agency	
			MGN 280 (M)	Construction standards for small vessels sports use	

Division Code : 06			Mechanical Engineering	
Item No.	Item Description	Components	Codes/ Standar	ds/ Acceptability Criteria /Test
56	Steel Grade	-	ASTM A131	Standard Specification for Structural Steel for Ships
			EN 10025 (93)	General Structural Steel
			ISO 630	Structural Steel
			ISO 4950	High yield strength flat steel product
			JIS G 3106	Rolled steel for welded structure
57	Vibration	-	ISO 10055	Mechanical vibration - Vibration testing requirements for shipboard equipment and machinery components
			ISO/DIS 20154	Ships and marine technology - Guidelines on vibration isolation design methods for shipboard auxiliary machinery
			ISO 20283-2	Mechanical vibration -Measurement of vibration on ships - Part 2: Measurement of structural vibration
			ISO 20283-4	Mechanical vibration - Measuremen of vibration on ships - Part 4: Measurement and evaluation of vibration of the ship propulsion machinery
			ISO 2923	Measurement of noise on board vessels
58	Welding	-	Class NK	Part M
			DNV-GL	Part II- Materials and Welding, AWS
			RINA	Part D: Materials and Welding

CODES AND STANDARDS FOR TEXTILE ENGINEERING

Division Code: 07		Textile Engineering		
Item No.	Item Description	Components	Codes/ S	Standards/ Acceptability Criteria/Test
1	Capital Machineries (JTSC-	-	BDS 1252	Specification for Pabna type semi- automatic handloom
	12)		BDS 1328	Narsingdi type semi-automatic handloom
			BDS 1746	Power reeling machine
2	Jute Mills Spares	-	BDS 1172	Jute Broad Loom Shuttle
	and Accessories (JTSC-04)		BDS 1208	Shuttle for Hessian and Sacking loom
			BDS 1209	High Speed Jute Bobbin
			BDS 1210	Pitch-Bound Wire Reeds for Jute looms
			BDS 1211	Loom Pickers
			BDS 1212	Recommendation on shape and dimensions of Jute Loom Pickers
			BDS 1213	Specification for spool centres
			(Part 1)	(cylindrical and conical) for jute spool winding machines
			BDS 1213 (Part 2)	Specification for spool centres (cylindrical and conical) for jute precision winding machines
			BDS 1214	Card and gill pins for use in jute industry- Specification
			BDS 1218	Accessories for use in shuttle for jute looms
			BDS 1219	Picks sticks (arms) for over pick jute looms
			BDS 1232	Bobbin carrier for jute spinning frame
			BDS 1257	Faller bars
			BDS 1258	Faller screws
			BDS 1259	Spindle for jute cop winding machine
			BDS 1295	Cotton cambs
			BDS 1296	Inset mail wire healds
			BDS 1297	Boards for lay races
			BDS 1298	Box back blanks
			BDS 1299	Blanks for lay blocks
			BDS 1300	Blanks for swells
			BDS 1324	Loom (fly) spindle
			BDS 1325	Flyer spindle
			BDS 1326	Flyers for jute spinning frame

Divisi	Division Code : 07			Textile Engineering		
Item No.	Item Description	Components	Codes/ Sta	ndards/ Acceptability Criteria/Test		
2	Jute Mills Spares	-	BDS 1327	Faller bar slides for jute drawing frame		
	and Accessories (JTSC-04) (Contd.)		BDS 1398	Heald wire		
	(0.00001) (00.0000)		BDS 1400	Steel wire for reeds		
			BDS 1401	Shuttle for automatic cop changing jute looms		
			BDS 1451	Specification for rollers for drawing and spinning frames in jute mill		
			BDS 1486	Dead spindle		
			BDS ISO 8116-2 & 4	Textile machinery and accessories - Beams for winding		
3	Jute Products	-	BDS 813	Bangladesh hessian, Part-1, General		
	(JTSC-01)		BDS 837	Bangladesh hessian, Part-2		
			BDS 839	Jute bags for packing cement		
			BDS 905	Hessian, bags		
			BDS 929	Jute corn sacks/bags		
			BDS 983	Determination of breaking load (strength) of jute yarn		
			BDS 984	Jute canvas, Part-1, General requirement		
			BDS 985	Jute canvas, Part-2, Fine, 660 gm/m ²		
			BDS 1023	Bangladesh hessian, Part-3; 213 gm/m ² and 270 gm/m ² at 16 percent contract regain		
			BDS 1024	Bangladesh hessian, Par-4; 245 gm/m² at 16 percent contract regain		
			BDS 1050	Hessian sand bags, un- proofed and proofed		
			BDS 1072	Jute fabric for fertilizer bag		
			BDS 1073	Laminated jute bags for packing fertilizers		
			BDS 1091	Method for determination of seam strength of jute fabrics including their laminates		
			BDS 1173	Glossary of terms relating to jute products		
			BDS 1861	Specification for Bangladesh hessian – Part VI, 298 g/m² at 16 percent contact regains.		
			BDS 1865	Textiles - Jute and jute based bags — Method for drop test		
			BDS 1880	Textiles -Jute Bags for packing 50kg Sugar -Specification		

Divisi	ion Code : 07		Textile Engineering		
Item No.	Item Description	Components	Codes/ Standards/ Acceptability Criteria/Tes		
3	Jute Products (JTSC-01) (Contd.)	-	BDS 1887	Specification for jute bags for packing urea	
			BDS 1907	Methods for determination of bitumen content in laminated jute bags	
			BDS 1909	Specification for jute geotextiles	
4	Man-Made Fibre and Products	-	BDS ISO 2076	Textiles-Mane-made fibres- Generic names	
	(JTSC-14)		BDS ISO 9862	Geotextiles-Sampling and preparation of test specimens	
			BDS ISO 9863-1	Geosyntheties - Determination of thickness at specified. Pressures - Part 1: Single layers	
			BDS ISO 9863-2	Geotextiles- and geotextile- related products- Determination of thickness at specified pressures- Part 2: Procedure for determination of thickness of Single layers of multilayer products	
			BDS ISO 9864	Geosynthetics- Test method for the determination of mass per unit area of geotextiles and geotextile-related products	
			BDS ISO 10318	Geosynthetics-Terms and definitions	
			BDS ISO 10319	Geotextiles- Wide Width tensile test	
			BDS ISO 10320	Geotextiles- Identification of site	
			BDS ISO 10321	Geotextiles- Tensile test for Joints/Seams by wide- width method	
			BDS ISO 10722	Geosynthetics- Index test procedure for the evaluation of mechanical damage under repeated loading-Damage caused by granular material	
			BDS ISO 11058	Geotextiles- and geotextile- related products- Determination of water permeability characteristics normal to the plane, without load	
			BDS ISO 12236	Geosynthetics- Static puncture test (CBR test)	
			BDS ISO 12956	Geotextiles- and geotextile- related products- Determination of characteristic opening size	
			BDS ISO 12957-1	Geotextiles- Determination of friction characteristic Part 1: Direct shear test	
			BDS ISO 12957-2	Geotextiles- Determination of friction characteristic Part 2: Inclined plane test	

Division Code : 07			Textile Engineering		
Item No.	Item Description	Components	Codes/ Standards/ Acceptability Criteria/Test		
4	Man-Made Fibre and Products (JTSC-14) (Contd.)	-	BDS ISO 12958	Geotextiles- and geotextile- related products- Determination of water flow capacity in their plane	
			BDS ISO/TR 12960	Geotextiles and geotextile- related products- Screening test method for determining the resistance to liquids	
			BDS ISO 13426-1	Geotextiles and geotextile-related products-Strength of internal structural junctions-part 1: Geocells	
			BDS ISO 13426-2	Geotextiles and geotextile- related products- Strength of internal structural junctions- part 2: Geocomposites	
			BDS ISO 13427	Geotextiles and geotextile- related products- Abrasion damage simulation (sliding block test)	
			BDS ISO 13428	Geotextiles - Determination of the protection efficiency of a geosynthetic against impact damage	
			BDS ISO 13431	Geotextiles and geotextile- related products- Determination of tensile creep and creep rupture behaviour	
			BDS ISO 13433	Geotextiles- Dynamic perforation test (cone drop test)	
			BDS ISO/TR 13434	Geotextiles and geotextile-related products- Geotextiles on durability	
			BDS ISO 13437	Geotextiles and geotextile- related products- Method for installing and extracting samples in soil, and testing specimens in laboratory	
			BDS ISO 13438	Geotextiles and geotextile- related products-Screening test method for determining the resistance to oxidation.	
5	Textile Products (JTSC-02)	-	BDS ISO 105- F01	Textiles - Tests for colour fastness- Part F01: Specification for wool adjacent fabric	
			BDS ISO 105-F03	Textiles - Tests for colour fastness-Part F03: Specification for polyamide adjacent fabric	
			BDS ISO 105-F04	Textiles - Tests for colour fastness-Part F04: Specification for polyester adjacent fabric	
			BDS ISO 105-F05	Textiles - Tests for colour fastness-Part F05: Specification for acrylic adjacent fabric	
			BDS ISO 1107	Fishing nets – Netting – Basic terms and definition	

Divis	ion Code : 07		Textile Engineering		
Item No.	Item Description	Components	Codes/ Sta	andards/ Acceptability Criteria/Test	
5	Textile Products	-	BDS ISO 2959	Textiles - Woven fabric descriptions	
	(JTSC-02) (Contd.)		BDS ISO 8498	Woven fabric - Descriptions of defects- vocabulary	
			BDS ISO 8499	Knitted fabric - Descriptions of defects- vocabulary	
			BDS ISO 9354	Textiles - Weaves - Coding system and examples	
			BDS ISO 11224	Textiles – Non-wovens - Web formation and bonding - Vocabulary	
6	Textile Mill	-	BDS 438	Weaving loom working width	
	Accessories (JTSC- 11)		BDS 440	Diameters of drafting rollers for cotton fibre	
			BDS 1376	Classification of terms for shuttle	
			BDS 1452	Picking nose, boss and shell for looms	
			BDS 1453	Picking cone and bolt for looms	
			BDS 1454	Shuttles for plain cotton looms and its accessories	
			BDS 1455	Textile machinery and accessories - Spinning machines definition of side	
			BDS 1458	Textile machinery and accessories - Drafting arrangements for spinning machines - Terminology	
			BDS 1839 (Part -1)	Bobbin and pirns used in textile mills Wooden flyer bobbins	
			BDS 1839 (Part -2)	Bobbin and pirns used in textile mills Wooden warp bobbins for rabbeth spindles	
			BDS1839 (Part -3)	Textile machinery and accessories- Bobbins and pirns Plastic flyer bobbins	
			BDS ISO 92	Textiles machinery and accessories- spinning machinery definitions of side (left or right)	
			BDS ISO 93-1	Textiles machinery and accessories- cylindrical sliver cans-part 1: main definitions	
			BDS ISO 93-2	Textiles machinery and accessories- cylindrical sliver cans-part 2: spring bottoms	
			BDS ISO 94	Textiles machinery and accessories- spindle gauges for ring spinning and ring – doubling frames	

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Item No.	Item Description	Components	Codes/ Sta	andards/ Acceptability Criteria/Test		
6	Textile Mill Accessories (JTSC- 11) (Contd.)	-	BDS ISO 98	Textiles machinery and accessories - Spinning preparatory and spinning machines - covering characteristics of top rollers		
			BDS ISO 108	Textile machinery and accessories - Weaving looms- Definition of left and right sides		
			BDS ISO 109	Textile machinery - Working widths of weaving machines		
			BDS ISO 142	Textiles machinery and accessories - Weaving preparatory machines - Definition of left and right sides		
			BDS ISO 143	Textile machinery and accessories - Weft pirns for automatic looms		
			BDS ISO 342	Textiles machinery and accessories - Worsted and woollen cards - Working Width		
			BDS ISO 344	Textiles machinery and accessories - Spinning machinery - Flyer bobbins		
			BDS ISO 363-1	Textile machinery and accessories - Flat steel healds with closed end loops - Part 1: Dimensions of healds manufactured of rolled steel wire		
			BDS ISO 363-2	Textile machinery and accessories - Flat steel healds with closed end loops - Part 2: Dimensions of healds manufactured of hardened strip steel		
			BDS ISO 364	Textile machinery and accessories - Twin wire healds for weaving machines with heald frames		
			BDS ISO 365	Textile machinery and accessories - Twin wire healds with inset mail for Jacquard weaving		
			BDS ISO 366-1	Textiles machinery and accessories - Reeds - Part 1: Pitch bound reeds dimensions. Main dimensions for section wires for metallic code clothing - Part 1: Foot without interlocking or interchanging		
			BDS ISO 366-2	Textile machinery and accessories - Reeds - Part 2: Metal reeds with plate baulk - Dimensions and designation		
			BDS ISO 366-3	Textile machinery and accessories - Reeds - Part 3: Dimensions & designation of metal reeds with double-spring baulk		

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6	Textile Mill Accessories (JTSC- 11) (Contd.)	-	BDS ISO 366-4	Textile machinery and accessories - Reeds - Part 4: Dimensions and designation of plastic - Bound metal reeds	
			BDS ISO 366-5	Textile machinery and accessories - Reeds - Part 5: Dimensions and designation of profile capsules	
			BDS ISO 368	Spinning preparatory, spinning and doubling (twisting) machinery - Tubes for ring spinning doubling and twisting spindles. taper 1:38 and 1:64	
			BDS ISO 441	Textile machinery and accessories-Drop wires for warp stop motions for weaving machines without automatic drawing-in	
			BDS ISO 476	Textiles machinery and accessories-Pirn winding machines- Vocabulary	
			BDS ISO 477	Textiles machinery and accessories-cone and cheese winding machines- Vocabulary	
			BDS ISO 570	Textile machinery and accessories - Heald carrying rods for healds with closed "o"-shaped end loops	
			BDS ISO 572	Textile machinery and accessories-Shuttles for pirn changing automatic looms- Dimensions	
			BDS ISO 575	Textiles machinery and accessories- Transfer cone - Half angle of the cone 4 degrees 20'	
			BDS ISO 576	Textile machinery and accessories - Paper patterns for dobbies- Dimensions	
			BDS ISO 1150	Textile machinery and accessories - Drop wires for warp stop motions for weaving machines with automatic drawing	
			BDS ISO 1586	Textile machinery and accessories - Shuttles - Terms and designation in relation to the position of the shuttle eye	
			BDS ISO 1809	Textiles machinery and accessories - Types of formers for yarn packages - Nomenclature	
			BDS ISO 1865	Textile machinery and accessories - Serrated bars for mechanical warp stop motions - Designation of dimensions, and dimensions of cross-section	
			BDS ISO 2012	Textile machinery and accessories - Cone sectional warping machines - Maximum usable width	

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Item No.	Item Description	Components	Codes/ Sta	ndards/ Acceptability Criteria/Test	
6	Textile Mill Accessories (JTSC- 11) (Contd.)	-	BDS ISO 2187	Spinning preparatory machinery, spinning and doubling (twisting) machinery - List of equivalent terms	
			BDS ISO 2205	Textiles machinery and accessories - Drafting arrangements for spinning machines - Terminology	
			BDS ISO 2544	Textile machinery and accessories - Warping machinery - Preparation of warp for weaving - Vocabulary	
			BDS ISO 2572	Textiles machinery and accessories - Card gauges	
			BDS ISO 2748	Textile machinery and accessories - Lingoes for jacquard weaving	
			BDS ISO 3914-1	Textiles machinery and accessories- Cylindrical tubes - Part 1: Recommended main dimensions	
			BDS ISO 3914-2	Textiles machinery and accessories - Cylindrical tubes - Part 2: Dimensions tolerances and designation of tubes for open-end spinning machines	
			BDS ISO 3914-3	Textiles machinery and accessories- cylindrical tubes-Part 3: Dimensions tolerances and designation of tubes for tape yarns	
			BDS ISO 3914-4	Textiles machinery and accessories- cylindrical tubes-Part 4: Dimensions tolerances and designation of tubes for textured yarns	
			BDS ISO 3914-5	Textiles machinery and accessories - Cylindrical tubes - Part 5: Dimensions tolerances and designation of tubes for continuous spin-drawn synthetic filament yarns	
			BDS ISO 3914-6	Textiles machinery and accessories - Cylindrical tubes - Part 6: Dimensions tolerances and designation of tubes for cross-wound packages in winding and twisting	
			BDS ISO 3914-7	Textiles machinery and accessories - Cylindrical tubes - Part 7: Dimensions tolerances and designation of perforated tubes for cheese dyeing	
			BDS ISO 4105	Textiles machinery and accessories - Wires for flexible card clothing	
			BDS ISO 5232	Graphical symbols for textiles machinery	
			BDS ISO 5233	Textiles machinery and accessories - Bottom fluted rollers for drafting systems	

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6	Textile Mill Accessories (JTSC- 11) (Contd.)	-	BDS ISO 5234	Textiles machinery and accessories - metallic card clothing - Definition dimensions, types and mounting
			BDS ISO 5238-1	Textiles machinery and accessories - Packages of yarns and intermediate products - Part 1: Terminology
			BDS ISO 5238-2	Textiles machinery and accessories - Packages of yarns and intermediate products - Part 2: Forms of winding
			BDS ISO 5239	Textiles machinery and accessories - Winding - Basic terms
			BDS ISO 5240	Textiles machinery and accessories - Warp creels - Main dimensions
			BDS ISO 5243	Textile machinery and accessories - Numbering of heald frames and drop wire bars in a loom
			BDS ISO 5247-1	Textile machinery and accessories - weaving machines - Part 1: Vocabulary & classification
			BDS ISO 5247-2	Textile machinery and accessories - weaving machines - Part 2: Accessories - Vocabulary
			BDS ISO 5247-3	Textile machinery and accessories - Weaving machines - Part3: Parts of the machine - Vocabulary
			BDS ISO 6170	Spinning machinery - Condenser rubbers for cards
			BDS ISO 6173	Open-end spinning machines – Vocabulary
			BDS ISO 6176	Textile machinery and accessories - Warp sizing machines - Maximum usable width
			BDS ISO 6177	Textile machinery - Cloth rollers - Terminology & main dimensions
			BDS ISO 8114	Textiles machinery and accessories - Spindles for Ring - Spinning and doubling machinery - List of equivalent terms
			BDS ISO 8116-1	Textiles machinery and accessories - Beams for winding - Part 1: General vocabulary
			BDS ISO 8116-2	Textiles machinery and accessories - Beams for winding - Part 2: Warper's beams
			BDS ISO 8116-3	Textiles machinery and accessories - Beams for winding - Part 3: Weaver's beams

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6	Textile Mill Accessories (JTSC- 11) (Contd.)	-	BDS ISO 8116-4	Textiles machinery and accessories - Beams for winding - Part 4: Quality classification of flanges for weaver's beams, Warper's beams and sectional beams	
			BDS ISO 8116-5	Textiles machinery and accessories - Beams for winding - Part 5: Sectional beams for warp knitting machines	
			BDS ISO 8116-6	Textiles machinery and accessories - Beams for winding - Part 6: Beams for ribbon weaving and ribbon knitting	
			BDS ISO 8116-7	Textiles machinery and accessories - Beams for winding - Part 7: Beams for dyeing slivers, rovings and yarns	
			BDS ISO 8116-8	Textiles machinery and accessories - Beams for winding - Part 8: Definitions of run-out tolerances and methods of measurement	
			BDS ISO 8116-9	Textiles machinery and accessories - Beams for winding - Part 9: Dyeing beams for textile fabrics	
			BDS ISO 8489-1	Textile machinery and accessories - Cones for cross winding - Part 1: Recommended main dimensions	
			BDS ISO 8489-2	Textile machinery and accessories - Cones for cross winding - Part 2: Dimensions, tolerances and designation of cones with half angle 3 degrees 30'	
			BDS ISO 8489-3	Textile machinery and accessories - Cones for cross winding - Part 3: Dimensions, tolerances and designation of cones with half angle 4 degrees 20'	
			BDS ISO 8489-4	Textile machinery and accessories - Cones for cross winding - Part 4: Dimensions, tolerances and designation of cones with half angle 4 degrees 20' for winding for dyeing purposes	
			BDS ISO 8489-5	Textile machinery and accessories - Cones for cross winding - Part 5: Dimensions, tolerances and designation of cones with half angle 5 degrees 57'	
			BDS ISO 9902-1	Textiles machinery noise test code - Part 1: General requirements	
			BDS ISO 9902-2	Textiles machinery noise test code - Part 2: Spinning preparatory and spinning machinery	

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6	Textile Mill Accessories (JTSC- 11) (Contd.)	-	BDS ISO 9902-4	Textiles machinery noise test code - Part 4: Yarn processing, cordage and rope manufacturing machinery	
			BDS ISO 9902-5	Textile machinery - Noise test code - Part 5: Weaving and knitting preparatory machinery	
			BDS ISO 9902-6	Textile machinery - Noise test code - Part 6: Fabric manufacturing machinery	
			BDS ISO 9903-1	Textiles machinery and accessories main dimensions for section wires for metallic code clothing - Part 1: Foot without interlocking or interchanging	
			BDS ISO 9903-2	Textiles machinery and accessories - Main dimensions for section wires for metallic card clothing - Part 2: Foot with interchanging	
			BDS ISO 9904	Textiles machinery and accessories - Steel pins for spinning preparatory and spinning machinery	
			BDS ISO 9947	Textiles machinery and accessories - Two-for-one twisters vocabulary	
			BDS ISO 10458	Textile machinery - Square bars for winding devices relating to dyeing and finishing machines - Dimensions	
			BDS ISO 11111-1	Textiles Machinery - Safety requirements - Part 1: Common requirements	
			BDS ISO 11111-2	Textiles machinery - Safety requirements - Part 2: Spinning preparatory and spinning machines	
			BDS ISO 11111-4	Textiles machinery - Safety requirements - Part 4: Yarn processing, cordage and rope manufacturing machines	
			BDS ISO 11659-1	Textiles machinery and accessories - Machine - Parts in contact with textile processing oils - Part 1: Determination of anticorrosive effect upon steel	
			BDS ISO 11659-2	Textiles machinery and accessories - Machine parts in contact with textile processing oils - part 2: Determination of the impact on polymeric materials	
			BDS ISO 11659-3	Textiles machinery and accessories - Machine parts in contact with textile processing oils - Part 3: Determination of the impact on lacquers	

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6	Textile Mill Accessories (JTSC- 11) (Contd.)	-	BDS ISO 11676	Textiles machinery and accessories - Pattern disks and pattern chains for warp knitting machines - Vocabulary and symbols	
			BDS ISO 13553	Textile machinery and accessories - Weaver's beams - Specification for connections for automation of beam changing	
			BDS ISO 13754	Textiles machinery and accessories - Hexagon nuts and slotted nuts for spinning and twisting spindles	
			BDS ISO 14500	Textile machinery and accessories - Harness for Jacquard weaving machines - Vocabulary	
			BDS ISO 15228	Textile machinery and accessories - Profile reeds for air jet weaving machines - Dimensions	
			BDS ISO 16853 7	Textiles machinery sliver cans, rectangular - Main dimensions and tolerances	
			BDS ISO 16854	Textiles machinery - Ring twisting machines - Vocabulary	
			BDS ISO 16875	Textiles machinery - Ring spinning machines - for cotton spinning vocabulary	
			BDS ISO 20725	Textiles machinery - Condensers for cotton spinning - Vocabulary and principles of construction	
			BDS ISO 20726	Textiles machinery - Hopper feeders for cotton spinning - Vocabulary and principles of construction	
			BDS ISO 20727	Textiles Machinery - Mixing Bale openers for cotton spinning - Vocabulary and principles of construction	
7	Textile Test	-	BDS 8	Testing of cotton yarn	
	Methods (JTSC-05)		BDS 9	Inspection of cotton yarn grey	
			BDS 22	Inspection of cotton hosiery yarn	
			BDS 23	Inspection of cotton fabrics grey	
			BDS 24	Methods of testing of woven cotton fabric	
			BDS 39	Textiles - Fastness of dyes on textiles to soap washing	
			BDS 49	Testing fastness of dyes on textiles to acid milling	

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7	Textile Test Methods (JTSC-05) (Contd.)	-	BDS 43	Textiles- Tests for colour fastness- Part E02: Colour fastness to sea water	
			BDS 53	Testing fastness of dyes on textiles to acid chlorination	
			BDS 70	Textiles- Tests for colour fastness- Part E06: Colour fastness to spotting: Alkali	
			BDS 71	Textiles- Tests for colour fastness- Part E05: Colour fastness to spotting: Acid	
			BDS 72	Textiles- Tests for colour fastness- Part E07: Colour fastness to spotting: Water	
			BDS 73	Testing fastness of dyes on textiles to sublimation	
			BDS 79	Testing fastness of dyes on textiles to several agencies	
			BDS 83	Determination of breaking load (tensile strength) and elongation of woven cotton fabrics	
			BDS 84	Evaluating of moisture content in textile materials	
			BDS 91	Determination of starch in yarns and fabrics	
			BDS 92	Removal of added matter from textiles	
			BDS 94	Evaluating shrinkage of fabrics on immersion in cold water	
			BDS 95	Determination of shrinkage in woven cotton and linen fabrics on laundering	
			BDS 118	Determination of irregularity of yarn by variabilities of one-inch weights	
			BDS 121	Determination of shrinkage in woven rayon and synthetic fibre, fabrics on washing	
			BDS 152	Determination of lea strength and lea count of spun yarns	
			BDS 164	Determination of resistance of textiles to attack by microorganism	
			BDS 165	Determination of relative humidity in the atmosphere	
			BDS 166	Testing of knitted textile fabrics	
			BDS 174	Test for shrinkage of knitted cotton fabrics on laundering	
			BDS 198	Methods of determination of wettability of cotton fabrics	

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7	Textile Test Methods (JTSC-05)	-	BDS 199	Testing and tolerances for cotton sewing threads		
	(Contd.)		BDS 200	Testing and tolerances for woolen yarn		
			BDS 201	Test for shrinkage of knitted rayon fabrics on laundering		
			BDS 202	Testing and tolerances thereof for cotton and cotton rayon fabrics		
			BDS 203	Evaluating relaxation and felting shrinkage of stabilized woollen knitted fabrics on laundering		
			BDS 250	Method of test for stiffness of fabrics		
			BDS 251	Method of testing and tolerances for certain wool and part wool fabrics		
			BDS 268	Methods of test for curl in textile fabrics		
			BDS 276	Method for determination of scouring loss in grey and finished cotton textile material		
			BDS 638	Evaluating bursting strength of fabrics by ball-burst test		
			BDS ISO 811	Determination of resistance of fabrics to penetration by water (Hydrostatic head test)		
			BDS 815	Determination of correct invoice mass (weight) of textiles		
			BDS 958	Method for determination of nep count in cotton		
			BDS 1067	Recommended SI units for textiles		
			BDS 1068	Integrated conversion table for replacing traditional yarn numbers by rounded values in tex system.		
			BDS 1069	Conversion factors and conversion tables for yarn counts		
			BDS 1093	Methods for sampling of cotton fabrics for determination of physical characteristics		
			BDS 1121	Methods of testing viscose rayon staple fibres		
			BDS 1128	Method for sampling of cotton yarn for determination of characteristics, namely skein breaking load and twist		
			BDS 1129	Method of fibre sampling for testing		
			BDS 1222	Method for conditioning of textiles		

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7	Textile Test Methods (JTSC-05)	-	BDS 1294	Methods for determination of water soluble matter in textile materials	
	(Contd.)		BDS 1378	Method for identification of textiles fibre	
			BDS 1404	Method for textiles estimation of moisture, total size or finished ash and fatty matter in grey and finished cotton textile materials.	
			BDS 1634	Textiles- Tests for colour fastness- Part E03: Colour fastness to chlorinated water	
			BDS 1635	Textiles-Oil Repellency- Hydrocarbon resistance test	
			BDS 1719	Methods for quantitative chemical analysis of binary mixtures of polyester fibre with cotton as regenerated cellulose	
			BDS 1720	Recommended methods for the removal of non-fibrous matter prior to quantitative analysis	
			BDS 1730	Methods for quantitative chemical analysis of binary mixtures of acrylic and certain other fibres	
			BDS 1731	Methods for quantitative chemical analysis of ternary mixtures of viscose rayon, cotton and protein fibres	
			BDS 1747	Textiles fabrics - Commercial moisture regain - Specification	
			BDS 1748	Method for quantitative chemical analysis of binary mixtures of acetate and certain other fibres	
			BDS 1749	Method for quantitative chemical analysis of ternary mixtures of protein fibres, polyamides and certain other fibres	
			BDS 1831	Method for estimation of residual starch in cotton fabrics after desizing	
			BDS 1848	Method for determination of absorbency of absorbent textile materials	
			BDS 1857 (Part 1)	Method for estimation of common preservatives on Textiles - Part 1	
			BDS 1857 (Part 2)	Textiles - Estimation of common preservatives - Part 2	
			BDS 1921	Specification for preservative treatments of textiles	
			BDS 1922	Textiles-Method for determination of flammability of blankets	

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7	Textile Test Methods (JTSC-05)	-	BDS ISO 105-A01	Textiles- Tests for colour fastness- Part A01:General principles of testing	
	(Contd.)		BDS ISO 105-A02	Textiles- Tests for colour fastness- Part A02:Grey Scale for Assessing Change in Colour Principles of Testing	
			BDS ISO 105-A03	Textiles- Tests for colour fastness- Part A03:Grey scale for assessing staining	
			BDS ISO 105-A04	Textiles- Tests for colour fastness- Part A04: Method for the instrumental assessment of the degree of staining of adjacent fabrics	
			BDS ISO 105-A06	Textiles- Tests for colour fastness- Part A06: Instrumental determination of 1/1 standard depth of colour	
			BDS ISO 105-A08	Textiles- Tests for colour fastness- Part A08: Vocabulary used in colour measurement	
			BDS ISO 105-B01	Textiles- Tests for colour fastness- Part B01: Colour fastness to light: Day light	
			BDS ISO 105-B02	Textiles- Tests for colour fastness- Part B02: Colour fastness to artificial light: Xenon arc fading lamp test	
			BDS ISO 105-B03	Textiles- Tests for colour fastness- Part B03: Colour fastness to weathering: Outdoor exposure	
			BDS ISO 105-B04	Textiles- Tests for colour fastness- Part B06: colour fastness to artificial weathering: Xenon arc fading lamp	
			BDS ISO 105- B08	Textiles - Tests for colour fastness - Part B08: Quality control of blue wool reference material 1 to 7	
			BDS ISO 105-B10	Textiles - Tests for colour fastness - Part B10: Artificial weathering - Exposure to filtered xenon-arc radiation	
			BDS ISO 105-C01	Textiles- Tests for colour fastness- Part CO1: Colour fastness to washing test:1	
			BDS ISO 105-C02	Textiles- Tests for colour fastness- Part CO2: Colour fastness to washing test:2	
			BDS ISO 105-C03	Textiles- Tests for colour fastness- Part CO3: Colour fastness to washing test:3	
			BDS ISO 105-C04	Textiles- Tests for colour fastness- Part CO4: Colour fastness to washing test:4	
			BDS ISO 105-C05	Textiles- Tests for colour fastness- Part C05: Colour fastness to washing test: 5	

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7	Textile Test Methods (JTSC-05) (Contd.)	-	BDS ISO 105-C06	Textiles- Tests for colour fastness- Part C06: Colour fastness to domestic and commercial laundering	
			BDS ISO 105-C08	Textiles- Tests for colour fastness- Part C08: Colour fastness to domestic and commercial laundering using a nonphosphate reference detergent incorporating a low temperature bleach activator	
			BDS ISO 105-C09	Textiles- Tests for colour fastness- Part C09: Colour fastness to domestic and commercial laundering- Oxidative bleach response using a non-phosphate reference detergent incorporating a low temperature bleach activator	
			BDS ISO 105-C10	Textiles- Tests for colour fastness- Part C10: Colour fastness to washing with soap or soap and soda	
			BDS ISO 105-D01	Textiles- Tests for colour fastness- Part D01: Colour fastness to dry cleaning	
			BDS ISO 105-E01	Textiles- Tests for colour fastness- Part E01: colour fastness to water	
			BDS ISO 105-E04	Textiles- Tests for colour fastness- Part E04: Colour fastness to water to perspiration	
			BDS ISO 105-E08	Textiles- Tests for colour fastness- Part E08: Colour fastness to hot: Water	
			BDS ISO 105-E09	Textiles- Tests for colour fastness- Part E09: Colour fastnes to Potting	
			BDS ISO 105-E10	Textiles- Tests for colour fastness- Part E10: Colour fastness to decatizing	
			BDS ISO 105-E11	Textiles- Tests for colour fastness- Part E11: Colour fastness to steaming	
			BDS ISO 105-E12	Textiles- Tests for colour fastness- Part E12: Colour fastness to milling: Alkaline milling	
			BDS ISO 105-E13	Textiles- Tests for colour fastness- Part E13: Colour fastness to acid felting: Severe	
			BDS ISO 105-E14	Textiles- Tests for colour fastness- Part E14: Colour fastness to acid felting: Mild	
			BDS ISO 105-G01	Textiles- Tests for colour fastness- Part G01: Colour fastness to nitrogen oxides	
			BDS ISO 105-G02	Textiles- Tests for colour fastness- Part G02: Colour fastness to burnt-gas fumes	

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7	Textile Test Methods (JTSC-05) (Contd.)	-	BDS ISO 105-G03	Textiles- Tests for colour fastness- Part G03: Colour fastness to ozone in the atmosphere		
			BDS ISO 105-G04	Textiles- Tests for colour fastness- Part G04: Colour fastness to oxides of nitrogen in the atmosphere at high humidities		
			BDS ISO 105-J01	Textiles- Test for colour fastness- Part J01: General principles for measurement of surface colour		
			BDS ISO 105-J02	Textiles- Test for colour fastness- Part J02: Instrumental assessment of relative whiteness		
			BDS ISO 105-J03	Textiles- Tests for colour fastness- Part J03: Calculation of colour differences		
			BDS ISO 105-J05	Textiles- Test for colour fastness- Part J05: Method for instrumental assessment of the colour inconstancy of a specimen with change in illuminant		
			BDS ISO 105-N01	Textiles- Tests for colour fastness- Part N01: Colour fastness to bleaching: Hypochlorite		
			BDS ISO 105-N02	Textiles- Tests for colour fastness- Part N02: Colour fastness to bleaching: Peroxide		
			BDS ISO 105-N03	Textiles- Tests for colour fastness- Part N03: Colour fastness to bleaching: Sodium chloride (mild)		
			BDS ISO 105-N04	Textiles- Tests for colour fastness- Part N04: colour fastness to nleaching: Sodium Chlorite (severe)		
			BDS ISO 105-N05	Textiles- Tests for colour fastness- Part NO 5: Colour fastness to stoving		
			BDS ISO 105-P01	Textiles- Tests for colour fastness- Part P01: Colour fastness- to dry heat (excluding pressing)		
			BDS ISO 105- P02	Textiles- Tests for colour fastness- Part P02: Colour fastness to pleating: Steam pleating		
			BDS ISO 105-S01	Textiles- Tests for colour fastness- Part S01: Colour fastness to vulcanization :Hot air		
			BDS ISO 105- S02	Textiles- Tests for colour fastness- Part S02: Colour fastness to vulcanization sulfur monochloride		

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7	Textile Test Methods (JTSC-05) (Contd.)	-	BDS ISO 105-S03	Textiles- Tests for colour fastness- Part S03: Colour fastness to vulcanization open steam	
			BDS ISO 105-X01	Textiles- Tests for colour fastness- Part X01: Colour fastness to carbonizing: Aluminum chloride	
			BDS ISO 105-X02	Textiles- Tests for colour fastness- Part X02: Colour fastness to carbonizing: Sulfuric acid	
			BDS ISO 105- X04	Textiles- Tests for colour fastness- Part X04: Colour fastness to mercerizing	
			BDS ISO 105- X05	Textiles- Tests for colour fastness- Part X05: Colour fastness to organic solvents	
			BDS ISO 105- X06	Textiles- Tests for colour fastness- Part X06: Colour fastness to soda boiling	
			BDS ISO 105- X07	Textiles- Tests for colour fastness- Part X07: Colour fastness to cross-dyeing: Wool	
			BDS ISO 105- X08	Textiles- Tests for colour fastness- Part X08: Colour fastness to degumming	
			BDS ISO 105- X09	Textiles- Tests for colour fastness- Part X09: Colour fastness to formaldehyde	
			BDS ISO 105- X10	Textiles- Tests for colour fastness- Part X10: Assessment of migration of textile colour into polyvinyl chloride coatings	
			BDS ISO 105- X11	Textiles- Tests for colour fastness- Part X11: Colour fastness to hot pressing	
			BDS ISO 105-X12	Textiles- Tests for colour fastness- Part X12: Colour fastness to rubbing	
			BDS ISO 105- X13	Textiles- Tests for colour fastness- Part X13: Colour fastness of wool dyes to processes using chemical means for creasing, pleating and setting	
			BDS ISO 105- X14	Textiles- Tests for colour fastness- Part X14: Colour fastness to acid chlorination of wool: Sodium dichloroisocyanurate	
			BDS ISO 105-X16	Textiles- Tests for colour fastness- Part X16: Colour fastness to rubbing-small areas	
			BDS ISO 105-X18	Textiles – Tests for colour fastness – Part X18: Assessment of the potential to phenolic yellowing of materials	
			BDS ISO 105- Z01	Textiles- Tests for colour fastness- Part Z01: Colour fastness to metals in the Dye-bath: Chromium salts	

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Item No.	Item Description	Components	Codes/ Standards/ Acceptability Criteria/Test		
7	Textile Test Methods (JTSC-05) (Contd.)	-	BDS ISO 105- Z02	Textiles- Tests for colour fastness- Part Z02: Colour fastness to metals in the Dye- bath: Iron and copper	
			BDS ISO 105- Z03	Textiles- Tests for colour fastness- Part Z03: Intercompatibility of basic dyes for acrylic fibres	
			BDS ISO 105- Z04	Textiles- Tests for colour fastness- Part Z04: Dispersibility of disperse dyes	
			BDS ISO 105- Z05	Textiles- Tests for colour fastness- Part Z05: Determination of the dusting behaviour of dyes	
			BDS ISO 105- Z06	Textiles- Tests for colour fastness- Part Z06: Evaluation of dye and pigment migration	
			BDS ISO 105 Z07	Textiles- Tests for colour fastness- Part Z07: Determination of application solubility and solution stability of water soluble dyes	
			BDS ISO 105 Z08	Textiles- Tests for colour fastness- Part Z08: Determination of solubility and solution stability of reactive dyes in the presence of electrolytes	
			BDS ISO 105 Z09	Textiles- Tests for colour fastness- Part Z09: Determination of cold water solubility of water-soluble dyes	
			BDS ISO 105 Z10	Textiles- Tests for colour fastness- Part Z10: Determination of relative colour strength of dyes in solution	
			BDS ISO 105 Z11	Textiles- Tests for colour fastness- Part Z11: Evaluation of speckiness of colorant dispersions	
			BDS ISO 139	Textiles –Standard atmospheres for conditioning and testing	
			BDS ISO 675	Textiles - Woven fabrics - Determination of dimensional change on commercial laundering near the boiling point	
			BDS ISO 811	Textiles Fabric - Determination of resistance to water penetration-hydrostatic pressure test	
			BDS ISO 1144	Textiles - Universal system for designating linear density (Tex system)	
			BDS ISO 1833-1	Textiles - Quantitative chemical analysis- part 1: General principles of testing	
			BDS ISO 1833-2	Textiles – Quantitative chemical analysis- part 2: Ternary fibre mixtures	

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Item No.	Item Description	Components	Codes/ Standards/ Acceptability Criteria/Test		
7	Textile Test Methods (JTSC-05) (Contd.)	-	BDS ISO 1833-3	Textiles – Quantitative chemical analysis- part 3: Mixtures of acetate and certain other fibres (Method using acetone)	
			BDS ISO 1833-4	Textiles - Quantitative chemical analysis Part 4: Mixtures of certain protein and certain other fibres (Method using hypochlorite)	
			BDS ISO 1833-5	Textiles - Quantitative chemical analysis - Part 5: Mixtures of viscose, cupro or modal and cotton fibres (Method using sodium zincate)	
			BDS ISO 1833-7	Textiles - Quantitative chemical analysis Part 7: Mixtures of polyamide and certain other fibres (Method using formic acid)	
			BDS ISO 1833-8	Textiles - Quantitative chemical analysis - Part 8: Mixtures of acetate and triacetate fibres (Method using acetone)	
			BDS ISO 1833-11	Textiles - Quantitative chemical analysis - - Part 11: Mixtures of cellulose and polyester fibres (Method using sulfuric acid)	
			BDS ISO 1833-12	Textiles - Quantitative chemical analysis Part 12: Mixtures of acrylic, certain modacrylics, certain chloro, certain elastanes and certain other fibres (Method using dimethylformamide)	
			BDS ISO 1833-13	Textiles - Quantitative chemical analysis - Part 13: Mixtures of certain chlorofibres and certain other fibres (Method using carbon disulfide/acetone)	
			BDS ISO 1833-15	Textiles - Quantitative chemical analysis - Part 15: Mixtures of Jute and certain animal fibre (Method using determining nitrogen content)	
			BDS ISO 1833-16	Textiles - Quantitative chemical analysis - Part 16: Mixtures of Polypropylene fibres and certain other fibres (Method using xylene)	
			BDS ISO 1833-18	Textiles - Quantitative chemical analysis - Part 18: Mixtures of Silk and wool or hair (Method using sulphuric acid)	
			BDS ISO 2061	Evaluating of twist in yarn in package form	
			BDS ISO 2062	Determination of Tensile Strength and Elongation at Break of Single Yarns	

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Item No.	Item Description	Components	Codes/ Sta	ndards/ Acceptability Criteria/Test	
7	Textile Test Methods (JTSC-05) (Contd.)	-	BDS ISO 2313	Textiles - Determination of the recovery from creasing of a horizontally folded specimen of fabric by measuring the angle recovery. thermal resistance - Part 1: Low thermal resistance	
			BDS ISO 2549	Methods for Testing hand knotted woollen pile carpets	
			BDS ISO 2913	Wool - Colorimetric determination of cystine plus cysteine in hydrolysates	
			BDS ISO 2947	Textiles – Integrated conversion table for replacing traditional yarn numbers by rounded values in the tex system	
			BDS ISO 3005	Textiles - Determination of dimensional change of fabrics induced by free - steam	
			BDS ISO 3071	Textiles- Determination of pH of the aqueous extract	
			BDS ISO 3072	Wool - Determination of solubility in alkali	
			BDS ISO 3073	Wool - Determination of acid content	
			BDS ISO 3074	Wool - Determination of dichloromethane - Soluble matter in combed sliver	
			BDS ISO 3175-1	Textiles - Dry cleaning and finishing- Part 1: Method for assessing the cleanability of textiles and garments	
			BDS ISO 3175-2	Textiles-Dry cleaning and finishing- Part 2: Procedures tetrachloroethane	
			BDS ISO 3175-3	Textiles - Professional care, dry cleaning and wet cleaning of fabrics and garments - Part 3: Procedures for testing performance when cleaning and finishing using hydrocarbon solvents	
			BDS ISO 3175-4	Textiles - Professional care, dry cleaning and wet cleaning of fabrics and garments - Part 4: Procedures for testing performance when cleaning and finishing simulated wet cleaning	
			BDS ISO 3801	Textiles - Woven fabrics - Determination of mass per unit length and mass per unit area	
			BDS ISO 3998	Textiles - Determination of resistance to certain insect pest	
			BDS ISO 4880	Burning behaviour of textiles and textiles products- Vocabulary	
			BDS ISO 4913	Textiles-Cotton fabrics- Determination of length (span length) and uniformity index	

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Item No.	Item Description	Components	Codes/ Standards/ Acceptability Criteria/Test	
7	Textile Test Methods (JTSC-05)	-	BDS ISO 4920	Textiles fabrics – Determination of resistance to surface wetting (spray test)
	(Contd.)		BDS ISO 5077	Textiles - Determination of dimensional change in washing and drying
			BDS ISO 5084	Textiles - Determination of thickness of textiles and textile products
			BDS ISO 5085-1	Textiles - Determination of thermal resistance-Part 1: Low thermal resistance
			BDS ISO 5088	Textiles - Ternary fibre mixtures - Quantitative analysis
			BDS ISO 5089	Textiles- Preparation of laboratory test samples and test specimens for chemical testing
			BDS ISO 6330	Textiles domestic washing and drying procedures for textiles testing
			BDS ISO 6348	Textiles - Determination of mass- vocabulary
			BDS ISO 6741-1	Textiles - Fibers and yarns - Determination of commercial mass of consignment Part - 1: Mass determination and calculation
			BDS ISO 6741-2	Textiles- Fibers and yarns - Determination of commercial mass of consignment Part-2: Methods for obtaining laboratory samples
			BDS ISO 6741-3	Textiles- Fibers and yarns - Determination of commercial mass of consignment Part-3: Specimen cleaning procedures
			BDS ISO 6939	Textiles-Yarn from Packages- Methods of test for breaking strength of yarn by the skein methods
			BDS ISO 7211-1	Textiles - Woven fabrics- Construction - Methods of analysis - Part 1: Methods for the presentation of a weave diagram and plans for drafting, denting and lifting
			BDS ISO 7211-2	Textiles - Woven fabrics- Construction- Methods of analysis - Part 2: Determination of number of threads per unit length
			BDS ISO 7211-3	Textiles - Woven Fabrics - Construction- Methods of analysis-Part 3: Determination of crimp of yarn in fabric

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Item No.	Item Description	Components	Codes/ Sta	indards/ Acceptability Criteria/Test	
7	Textile Test Methods (JTSC-05) (Contd.)	-	BDS ISO 7211-4	Textiles - Woven fabrics - Construction - Methods of analysis-Part 4: Determination of twist in yarn removed from fabric	
			BDS ISO 7211-5	Textiles - Woven fabrics - Construction - Methods of analysis - Part 5: Determination of linear density of yarn removed from fabric	
			BDS ISO 7211-6	Textiles - Woven fabrics - Construction - Methods of analysis - Part 6: Determination of the mass of warp and weft per unit area of fabric	
			BDS ISO 7768	Textiles - Tests method for assessing the smoothness appearance of fabrics after cleansing	
			BDS ISO 7771	Textiles- Determination of dimensional changes of fabrics induced by cold- water immersion	
			BDS ISO 9865	Textiles- Determination of water repellency of fibres by the bundesmann rain shower test	
			BDS ISO 9866-1	Textiles-Effect of dry heat on fabrics under low pressure- Part 1: Procedure for dry- heat treatment of fabrics	
			BDS ISO 9866-2	Textiles-Effect of dry heat on fabrics under low pressure- Part 2: Determination of dimensional change in fabrics exposed to dry-heat	
			BDS ISO 12445	Determination of pilling resistance of fabrics	
			BDS ISO 12945-1	Textiles - Determination of fabric propensity to surface fuzzing and to pilling - Part 1: Pilling box method	
			BDS ISO 12945-2	Textiles - Determination of fabric propensity to surface fuzzing and to pilling - Part 2: Modified Martindale method	
			BDS ISO 12947-1	Textiles - Determination of the abrasion resistance of fabrics by the Martindale method- Part 1: Martindale abrasion testing apparatus	
			BDS ISO 12947-2	Textiles - Determination of the abrasion resistance of fabrics by the Martindale method - Part 2: Determination of specimen breakdown	

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Item No.	Item Description	Components	Codes/	Standards/ Acceptability Criteria/Test	
7	Textile Test Methods (JTSC-05) (Contd.)	-	BDS ISO 12947-3	Textiles-Determination of the abrasion resistance of fabrics by the Martindale method - Part 3: Determination of mass loss	
			BDS ISO 12947-4	Textiles-Determination of the abrasion resistance of fabrics by the Martindale method - Part 4: Assessment of appearance change	
			BDS ISO 13934- 1	Textiles- Tensile Properties of Fabrics- Part 1: Determination of maximum force and elongation at maximum force using the strip method	
			BDS ISO 13934- 2	Textiles- Tensile Properties of fabrics- Part 2: Determination of maximum force using the Grab method	
			BDS ISO 13935- 1	Textiles- Seam Tensile properties of fabrics and made—up textile articles Part 1: Determination of maximum force to seam rupture using the strip method	
			BDS ISO 13935- 2	Textiles- Seam tensile properties of fabrics and made – up textile articles Part 2: Determination of maximum force to seam rupture using the Grab method	
			BDS ISO 13936-1	Textiles - Determination of the slippage resistance of yarns at a seam in woven fabrics - Part 1: Fixed seam opening method	
			BDS ISO 13936-2	Textiles - Determination of the slippage resistance of yarns at a seam in woven fabrics - Part 2: Fixed load method.	
			BDS ISO 13936-3	Textiles - Determination of the slippage resistance of yarns at a seam in woven fabrics - Part 3: Needle clamp method	
			BDS ISO 13937-1	Textiles- Tear properties of fabrics- Part 1: Determination of tear force using ballistic pendulum method (elmendorf)	
			BDS ISO 13937- 2	Textiles- Tear properties of fabrics- Part 2: Determination of tear force of trouser- shaped test specimens (Single Tear method)	
			BDS ISO 13937- 3	Textiles- Tear properties of fabrics- Part 3: Determination of tear force of wing- Shaped test specimens (Single Tear method)	
			BDS ISO 13937- 4	Textiles- Tear Properties of Fabrics- Part 4: Determination of Tear force of tongue- shaped test specimens (Double Tear method)	

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Item No.	Item Description	Components	Codes/ Standards/ Acceptability Criteria/Test	
7	Textile Test Methods (JTSC- 05) (Contd.)	-	BDS ISO 13938-1	Textiles - Bursting properties of fabrics - Part 1: Hydraulic method for determination of bursting strength and bursting distension
			BDS ISO 13938-2	Textiles- Bursting properties of fabrics - Part 2: Pneumatic method for determination of bursting strength and bursting distension
			BDS ISO 14184-1	Textiles - Determination of formaldehyde - Part 1: Free and hydrolized formaldehyde (Water extraction method)
			BDS ISO 14184-2	Textiles - Determination of formaldehyde- Part 2: Released formaldehyde (Vapour absorption method)
			BDS ISO 14419	Textiles - Oil repellency - Hydro carbon resistance test
			BDS ISO 15797	Textiles - Industrial washing and finishing procedures for testing of workwear
			BDS ISO 16322-1	Textiles - Determination of spirality after laundering, Part 1 : Percentage of wale spirality change in knitted garments
			BDS ISO 16322-2	Textiles - Determination of spirality after laundering, Part 2 : Woven & knitted fabrics
			BDS ISO 16322-3	Textiles - Determination of spirality after laundering, Part 3 : Woven & knitted garments
			BDS ISO 16549	Unevenness of textile strands - Capacitance method
			BDS ISO 17202	Textiles - Determination of twist in single spun yarns untwist/retwist method
			BDS ISO 18695	Textiles - Determination of resistance to water penetration - Impact penetration test
			BDS ISO 18696	Determination of resistance to water absorption - Tumble-jar absorption test
			BDS ISO 20645	Textile fabrics - Determination of antibacterial activity - Agar diffusion plate test
			BDS ISO 20743	Textiles - Determination of antibacterial activity of antibacterial finished products
			BDS ISO 22198	Textiles-Fabrics-Determination of width and length

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Item No.	Item Description	Components	Codes/ Standards/ Acceptability Criteria/Test	
7	Textile Test Methods (JTSC-05)	-	BDS ISO 22958	Textiles- Water resistance - Rain tests exposure to a horizontal water spray
	(Contd.)		BDS ISO 24362-1	Textiles-Methods for determination of certain aromatic amines derived from azo colorants-Part1: Detection of the use of certain azo colorants accessible with and without extracting the fibres
			BDS ISO 24362-2	Textiles-Methods for determination of certain aromatic amines derived from azo colorants-Part 3: Detection of the use of certain azo colorants which may release 4-aminoazobenzene
8	Yarn, Rope, Twine	-	BDS 33	Cotton sewing thread
	and cordages (JTSC-06)		BDS 1027	Cotton yarn bleached/dyed. (first revision)
			BDS 1047	Cotton yarn - Grey
			BDS 1137	Grey cotton yarn for hosiery
			BDS 1221	Industrial sewing thread made wholly or partly from synthetic fibres
			BDS 1487	Fuse Yarn-Specification for blasting fuses produced in Bangladesh
			BDS 1542	Jute twine
			BDS 1559	Specification for spun polyester yarn, Part-2: for knitting
			BDS 1619	Threads for Footwear
			BDS 1744	Glossary of terms - Relating to fibre, ropes and cardages
			BDS 1795	Textiles - Rotor spun grey cotton yarns- specification
			BDS 1835	Textiles – Ring spun polyester blended grey yarn - Specification
			BDS 1836	Specification for Spun polyester yarn, Part-1: for weaving (conventional loom)
			BDS 1864	Specification for single jute yarn
			BDS 1926	Textiles - Composite synthetic fibre ropes - Specification
			BDS ISO 2	Textiles - Designation of the direction of twist in yarns and related products
			BDS ISO 1139	Textiles - Designation of yarns

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8	Yarn, Rope, Twine and cordages	-	BDS ISO 1140	Fibre ropes - Polyamide - 3, 4, 8 and 12 - strand ropes	
	(JTSC-06) (Contd.)		BDS ISO 1141	Fibre ropes - Polyester - 3, 4, 8 and 12 - strand ropes	
			BDS ISO 1181	Ropes- Manila and Sisal-Specification	
			BDS ISO 1346	Fibre ropes - Polypropylene split film, monofilament and multifilament (PP2) and polypropylene high-tenacity multifilament (PP3) -3, 4, 8 and 12 - strand ropes	
			BDS ISO 1968	Fibre ropes and cordages - Vocabulary	
			BDS ISO 1969	Fibre Ropes- Polyethylene - 3 and 4 - strand ropes	
			BDS ISO 2307	Fibre ropes- Determination of Certain Physical and Mechanical properties	
			BDS ISO 3505-1	Ropes and cordages- Equivalence between natural fibre ropes and man – Made fibre ropes for use in the mooring of vessels.	
			BDS ISO 4167	Ropes and cordages-Polyolefin agricultural twines	
			BDS ISO 5080	Sisal agricultural twines	
			BDS ISO 8159	Textiles - Morphology of fibres and yarns- Vocabulary	
			BDS ISO 8160	Textured - Filament yarns - Vocabulary	
			BDS ISO 9554	Fibre ropes- General specifications.	
			BDS ISO 10132	Textured - Filament yarns - Definition	
			BDS ISO 10290	Textiles - Cotton yarns- Specifications	
			BDS ISO 18692	Fibre ropes for offshore station keeping polyester	

